

# ON THE WAY TO FOSSIL FREEDOM

A CLIMATE STRATEGY FOR AARHUS



**CITY OF AARHUS**  
Technical Services and Environment  
Centre for Environment and Energy



# WELCOME TO AARHUS

Right next to the sea and to ancient forests, the City of Aarhus lies as a vibrant urban environment surrounded by the beauty of nature. Aarhus is an open, inclusive city where there is room for everyone.

Aarhus is Denmark's second-largest city and the fastest-growing in the country. Within the municipality borders live 335,000 people. In the past ten years, the city has received 15,000 new residents and created 20,000 new jobs, the majority within the knowledge, service and innovation industries.

Being a city of engaged citizens, innovative businesses and students from all over the world, Aarhus is characterized by a strong spirit of cooperation and social cohesion.



In Aarhus, there is a belief that there is always room for improvement, and we do not shy away from taking on big challenges. Whether it is giant leaps in innovation or small steps in efficiency, Aarhus is all about taking what is there and improving it.

Climate change is one of the biggest challenges the world has ever faced.

That's why Denmark has set a national target of being independent of fossil fuels by 2050. That requires the transformation of the way we live.

The cities of the world are major contributors to global warming, which means they have a particular responsibility and play a major role in the green transformation.

Aarhus has therefore set its own ambitious target to reduce its CO<sub>2</sub> emissions.

Our vision is a CO<sub>2</sub>-neutral city by 2030, as a step along the way towards the fossil-free society.

A transformation that will go hand-in hand with commercial development and intelligent urban growth.

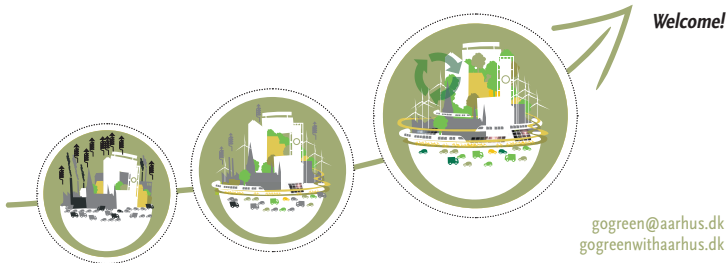
And we've already come a long way! The City Council has been driving the transformation since the ambition of CO<sub>2</sub>-neutrality was conceived in 2008. Examples include the switch to green district heating and electricity in 2016 by burning biomass instead of coal; the new light railway that will reduce the use of fossil fuels in public transportation, and the energy renovation programme for the council's own buildings, which will mean considerable energy savings.

These are all major steps along the way, but we still need concentrated effort to reach our objective.

This is the strategy that guides our work on combatting climate change in Aarhus.

There are more details of the specific initiatives and projects that will run between 2016 and 2020 within the six main elements of the strategy in the strategy enclosed.

This ability to rethink itself has made Aarhus a go-to city for international collaboration and a source of inspiration for both businesses and other cities.



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The City will support the development of an energy system based on sustainable energy, capable of supplying energy for any purpose with high consistency.



### **We will do so by:**

- phasing-out fossil fuels in our own energy production
- protecting our entire energy system through strategic planning and development of advanced energy solutions
- regarding waste as a resource whilst reducing quantity and increasing recycling.



We will support transformation to fossil-free transport.

**We will do so by:**

- reducing the energy needs of transport through intelligent urban development and the use of new technologies
- changing the structure of city transport through influencing behaviour and developing the infrastructure
- promoting technology change in the transport sector through new projects and partnerships.





We will promote optimisation of energy consumption by City Council buildings to create balance in an energy system based on sustainable energy, making the green transformation easier and cheaper.



## We will do so by:

- accelerating renovation of our existing buildings, with adaptation to the intelligent energy consumption of the future
- promoting green transformation and sustainability in building projects
- mobilising and strengthening knowledge and skills levels in the local building industry.



We will promote optimisation of energy consumption, switch to sustainable energy sources and encourage their use by the industry.

### We will do so by:

- making industry more efficient, and encouraging the phasing out of fossil fuels through dialogue and counselling on green transformation
- using the public heating system to make energy consumption more efficient, e.g. making use of surplus heat
- promoting the circular economy with recycling and resource optimisation via new projects and partnerships.

# LOCAL ENGAGEMENT AND GROWTH

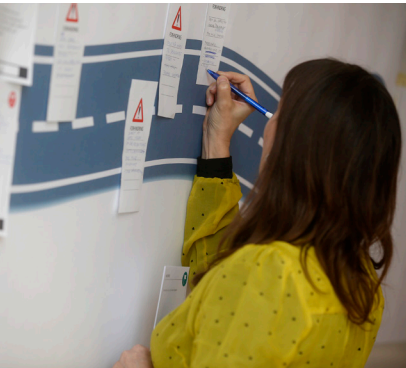


We will promote transformation by solving the problems involved in partnership with local expertise, creating the potential for future growth.



## We will do so by:

- boosting the understanding of future generations and their chances of getting involved in the green transformation as engaged, active members of the public
- being a professional partner, able to promote development and the export of green solutions in consultation with businesses, academic institutions and the grass roots
- creating visibility for green transformation and the results we achieve along the way.





# OUR WORKPLACE



As an organisation, we will actively contribute to the green transformation by setting standards for ourselves, our suppliers and partners.



## We will do so by:

- phasing-out fossil fuels in the vehicles we own and the transportation services we buy-in
- reducing and optimising the use of resources in our own buildings and activities
- promoting development and demand by setting standards for our procurement and tenders, and for enterprises owned by the City Council
- involving our employees, increasing their chances of being able to contribute.

# 走向无化石

奥胡斯的气候战略



奥胡斯市  
技术与环境  
环境与能源中心



# 奥胡斯欢迎您

毗邻大海，背靠古林，奥胡斯城，一个活力四射的现代都市，在自然美景中生生不息。这是一个开放而包容的城市，这里有属于每一个人的空间。

作为丹麦的第二大城市，奥胡斯以全国最快的速度在发展着。奥胡斯现有人口33.5万。在过去的十年里，奥胡斯迎来了1.5万名新居民，创造了2万个新的工作岗位，其中大部分属于知识、服务和创新行业。



奥胡斯拥有积极参与的市民、创新的企业和来自全球的学子，这里的特点就是：强大的合作精神与社会凝聚力。

奥胡斯人有一个信念，那就是：总有改进的余地。我们会勇敢地接受重大的挑战。无论是创新的巨大飞跃还是效率的小步提高，奥胡斯就是面对现实、不断改进。

气候的变迁是迄今为止世界面临的最大挑战。

因此丹麦设定了一个全国性的目标：到2050年不再依赖化石燃料。这需要我们改变现有的生活方式。

全球的城市是全球暖化的主要源头，这意味着城市肩负着特殊的责任，并在绿色转型中扮演着重要角色。

奥胡斯也因此设定了自己的减少二氧化碳排放量的宏伟目标。

我们的愿景是：到2030年成为二氧化碳中性城市，向无化石社会迈进一步。

奥胡斯将开启一个与商务发展和智能城市发展携手并进的绿色转型。

我们已经在这条路上走过长长的一程！自2008年计划制定以来，市政府一直在推动转型。例如，2016年通过燃烧生物质取代燃烧煤炭在区域供热和供电方面进行绿色转型；新的轻轨将在公交领域减少使用化石燃料；政府自有建筑的能源改造项目将意味着能节约大量的能源。

这些都是一路走过的重要几步，我们依然需要密集的付出才能达到我们的目标。

这是我们在奥胡斯应对气候变化工作的指导战略。

有关2016-2020年我们将在战略的六大领域实施的具体举措和项目等更多细节请见所附计划。

再思考的这种能力本身让奥胡斯成为了国际合作的所向城市，也成为了商企和其他城市的灵感源泉。

欢迎光临！



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奥胡斯市将支持一个面向具有高度供应安全、适用所有用途的可再生能源的能源系统的发展。



## 我们将通过以下方式来实现：

- 在能源生产过程中逐步淘汰化石燃料
- 通过战略规划和发展未来能源解决方案，确保全市能源系统的安全运转
- 视废物为资源，减少废物数量，并增加回收利用。



我们将支持向无化石交通运输转型。

**我们将通过以下方式来实现：**

- 通过推动智能城市发展和新技术的应用，减少交通运输的能源需求
- 通过影响市民行为和城市基础设施来改变城市的交通运输组成结构
- 通过新的项目和合作伙伴在交通运输领域推动技术转型。





我们将推动城市建筑优化使用能源，以建立平衡的、基于可再生能源的能源系统，并使绿色转型更容易、更便宜。



**我们将通过以下方式来实现：**

- 推动现有建筑的改造，并使其适应未来的智能能源使用
- 促进绿色转型，并推动奥胡斯建筑项目的可持续发展
- 动员本地建筑业从业人员提高知识、增强能力。



我们将促进工业领域的能源使用优化、可再生能源原料的转换，和增加废物回收利用。

### 我们将通过以下方式来实现：

- 提高产业效率，通过进行有关绿色转型的对话和咨询活动，推动企业逐步淘汰化石燃料
- 利用集中供暖系统，对能源使用进行提效和优化，比如余热利用
- 通过废物回收利用和对新的项目和合作伙伴进行资源优化，促进工业领域的经济循环。



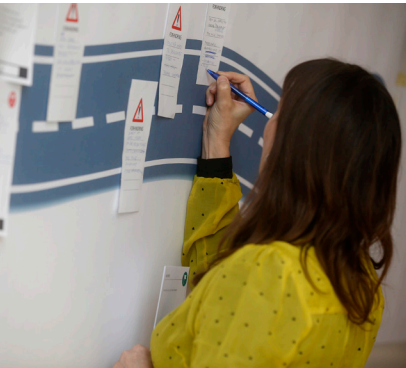


我们将与当地市民一起解决挑战，  
创造当地的发展机会，以此推动绿色转型。



## 我们将通过以下方式来实现：

- 让现在和未来的一代学习相关知识，增加他们参与绿色转型的机会，成为积极参与的公民
- 让我们自己成为一个专业的合作伙伴，与企业、研究机构和草根民众一起促进绿色解决方案的发展与出口
- 增加绿色转型和在转型过程中取得的成绩的能见度。





我们作为一个机构将积极地为绿色转型而努力，我们将对我们自己、我们的供应商和合作伙伴设定标准。



**我们将通过以下方式来实现：**

- 在自有的交通运输和购买的运输服务方面逐步淘汰化石燃料
- 减少并优化自有建筑和各类活动的资源使用
- 通过对采购和供给，以及对市府所属企业设定标准，来促进发展，并增加需求
- 邀请员工参与，并增加他们为转型而努力的机会。