

# Carbon Report Siemens plc 2021

*Siemens is committed to delivering a Net Zero future  
through our technology and our business practices*

**Carl Ennis, Chief Executive Officer, Siemens plc**



**SIEMENS**

# Net Zero at Siemens plc

Siemens plc is a leading sustainable technology company working in the fields of smart infrastructure, e-mobility, automation and digitalisation. Since 2015 Siemens has had a global target to halve its emissions by 2020 and become Net Zero in its own operations by 2030. Siemens cemented this commitment to climate action by signing up to the Climate Pledge, setting 1.5°C aligned

science-based targets with the Science Based Targets Initiative (SBTi) and joining EV100, RE100 and EP100.

Siemens has committed to a science-based reduction pathway along our entire value chain. In this way, we are ensuring that our climate-protection efforts are in harmony with the Paris Climate Agreement’s highest level of ambition.

## By 2030 Siemens in the UK:

- aims for electric vehicles to account for 100% of our fleet
- will own or lease only buildings that have net-zero carbon emissions
- will source 100% renewable power
- intends to achieve a 20% reduction in our supply chain’s emissions

CLIMATE GROUP  
EV100

CLIMATE GROUP  
EP100

RE100  
CLIMATE GROUP

## By 2050 Siemens plc

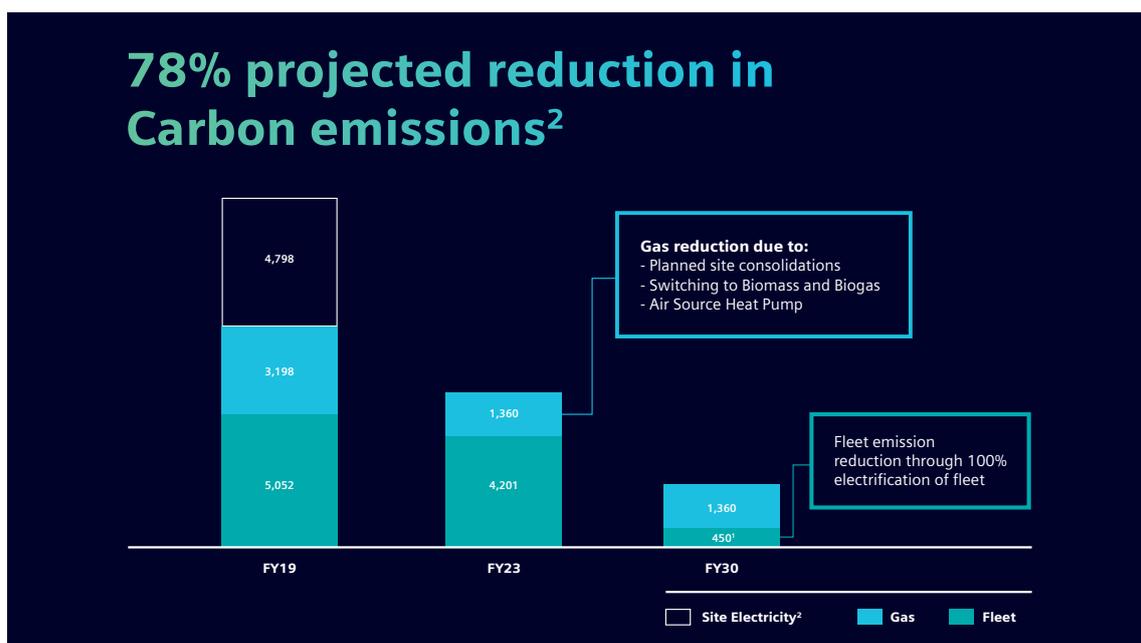
aims to achieve an emission-free supply chain



Siemens plc Net Zero programme sets an ambitious carbon reduction framework up to 2030, taking us beyond Siemens’s SBTi commitments. Establishing a strategic programme centered on ongoing collaboration to deliver on decarbonisation in Scopes 1, 2 & 3 by bringing together our stakeholders and experts to

develop a set of realistic actions to minimise our own emissions and those in our value stream. By driving data transparency and multi-stakeholder engagement our programme is delivering practical decarbonisation measures.

## Siemens UK Projected Scope 1&2 CO<sub>2</sub>e emissions reductions



1. Calculated assuming 50% EVs charge on 100% renewable energy  
 2. We already purchase 100% Green Electricity (REGO certified) for all Siemens UK sites since 2016

We project that Scope 1 and 2 carbon emissions will decrease to 4453 tCO<sub>2</sub>e by 2025. This is a reduction of 41% from our 2019 baseline.

We are:

- ✓ Using our Internal Carbon Price (ICP) - aligned to the High Level Commission on Carbon Pricing's corridors - to support investments in the technologies required to decarbonise our operations. This funding has already delivered an Energy Management project which established and tested a process to identify and then lower our sites' energy baseload, resulting in an average 10% energy reduction.
  - ✓ Installing technologies at our sites to dramatically decarbonise our heating emissions. These include Biomass Heating at two sites in the North-West, and an HVAC and Air Source Heat Pump solution at our major site in the North-East. These measures mean we are already close to achieving a 50% reduction in our carbon emissions from gas heating in 2022 from our FY19 baseline.
  - ✓ Establishing a programme to extend and refresh our electric charging infrastructure at all our sites, to enable a smooth and rapid transition to a full electric fleet by 2030.
  - ✓ Targetting our suppliers responsible for the greatest carbon emissions with our Carbon Web Assessment (CWA) to help identify and support them with decarbonisation and energy efficiency initiatives.
  - ✓ Working on improving measurement of Siemens plc Scope 3 emissions in categories 1-9 (GHG Protocol) and seek verification of these during our next Carbon Trust accreditation in 2022\*.
- \*Siemens plc has held Carbon Trust accreditation since 2010

## Where Siemens Scope 1 & 2 CO<sub>2</sub>e emissions reductions are coming from



Further information on our approach to Sustainability can be found at [new.siemens.com/uk/en/company/sustainability.html](https://new.siemens.com/uk/en/company/sustainability.html)

# Emissions

Current Emissions FY21 (October 2020 to September 2021)		Baseline Emissions FY19 (October 2019 to September 2020)		
SCOPE 1	 Gas Heating    Company vehicles	8300 tCO <sub>2</sub> e	7686 tCO <sub>2</sub> e	
SCOPE 2	 Company facilities	166 tCO <sub>2</sub> e (Market based)	103 tCO <sub>2</sub> e (Market based)*	
SCOPE 3.4 Upstream & downstream	 Transport and distribution upstream	Baselined FY21	15,719 tCO <sub>2</sub> e	
SCOPE 3.5	 Operations generated waste	40 tCO <sub>2</sub> e	22 tCO <sub>2</sub> e	
SCOPE 3.6**	 Business travel	5701 tCO <sub>2</sub> e	1716 tCO <sub>2</sub> e	
SCOPE 3.7***	 Employee commuting	859 tCO <sub>2</sub> e	1187 tCO <sub>2</sub> e	
<b>Total Emissions</b>		<b>15,066 tCO<sub>2</sub>e</b>	<b>26,433 tCO<sub>2</sub>e</b>	

**Note:** Carbon dioxide equivalent (CO<sub>2</sub>e) emissions represent emissions of all greenhouse gases, aggregated and converted to units of CO<sub>2</sub>e using Global Warming Potential (GWP) values.

\* Reported 11 months in arrears

\*\* Includes flights and train travel modes only, all business mileage in cars is accounted for in Scope 1

\*\*\* Includes homeworking

# Emission Reduction Workstreams

## Greening the Fleet

- ✓ Roadmap developed to transition Siemens plc car and van fleet to fully electric by 2030
- ✓ We currently have the largest plug in fleet of any UK company
- ✓ We are piloting EV vans for use in our commercial fleet
- ✓ Senior Managers are leading by example and have switched to plug-in hybrid and battery electric vehicles
- ✓ Electric vehicles are being made available to all company car drivers
- ✓ From 2026, drivers renewing their vehicle will only have the option of EVs
- ✓ We are upgrading our current charging infrastructure and rolling out Siemens VersiCharge EV chargers to all our sites in the next five years to support the transition
- ✓ Cutting our fleet emissions over 90% by 2030 through charging using renewable electricity wherever possible
- ✓ Wider trials for low carbon alternative transport options e.g. mobility as a service

## Where we work

- ✓ We have a carbon reduction plan for all our UK Siemens's sites
- ✓ All sites to eliminate natural gas energy sources by 2030 in favour of renewable energy sources
- ✓ All new Siemens's sites must have streamlined office space, be highly energy efficient, and be capable of becoming Net Zero
- ✓ Energy usage to be measured at equipment level on our manufacturing sites
- ✓ Our six key UK sites and our fleets are certified to ISO50001:2018. Actions taken within the ISO50001 management system include:
  - » Designing in energy efficiency to the planned refurbishment of offices
  - » Linking a key manufacturing site to a local hydro power project

## Value Chain Emissions

- ✓ We are assessing the risks and opportunities that Siemens plc faces due to climate change using TCFD methodology
- ✓ CWA enables suppliers to learn about their own carbon emissions; a second step also provides detailed possibilities to reduce them
- ✓ Measures already taken to reduce carbon in our supply chain include:
  - » Switching to office supplies with a lower carbon footprint
  - » A financial carbon incentive to drive the selection of low carbon company cars
  - » Adapting our crane hire model to create a >80% reduction in CO2 associated with their hire
- ✓ The company is zero waste to landfill and works proactively with waste services providers to continually move materials up the waste hierarchy
- ✓ We are working hard to develop carbon neutral products

## Beyond the workplace

- ✓ Access to the Cycle2Work scheme to promote green commuting, allowing the hire of bikes and safety equipment up to the value of £2,000 as a tax-free benefit through salary sacrifice
- ✓ Supporting our employees to have a good understanding of their own carbon emissions and those associated with their work
- ✓ Encouraging low carbon business travel; with transparency on the carbon impacts of different travel choices and are piloting a carbon travel budget next year
- ✓ Developing salary sacrifice schemes to support decarbonisation at employees' homes and when commuting

✓ Actions already taken    ✓ Upcoming actions

# Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans for the Siemens plc holdings businesses including Electrium, Large Drives, Smart Infrastructure, Digital industries, Siemens Congleton and Siemens Financial Services.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard and uses the appropriate Government emission conversion factors for greenhouse gas company reporting .

Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements, and the required subset of Scope 3 emissions have been reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard .

This Carbon Reduction Plan has been reviewed and signed off by the board of directors (or equivalent management body).

Signed on behalf of the Supplier

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This report also includes subsidiary companies

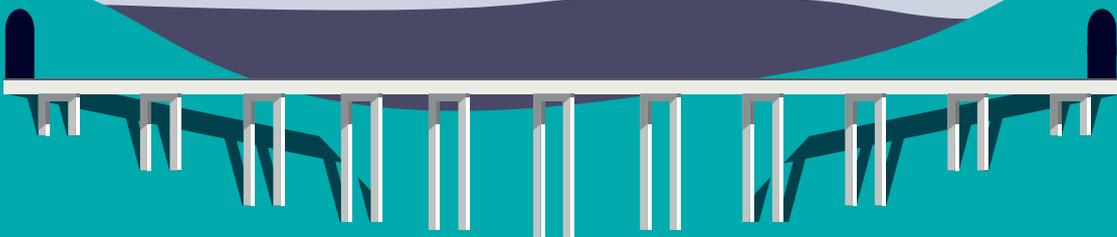
**Siemens Financial Services Ltd.**

Registered in England and Wales no: 646166

**Electrium Ltd**

Registered in England and Wales no : 2226729

1. [www.ghgprotocol.org/corporate-standard](http://www.ghgprotocol.org/corporate-standard)
2. [www.gov.uk/government/collections/government-conversion-factors-for-company-reporting](http://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting)
3. [www.ghgprotocol.org/standards/scope-3-standard](http://www.ghgprotocol.org/standards/scope-3-standard)



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