

Opportunity with Audi AG

Carbon Neutral Plant Certification

Programme

Carbon Neutral Plant Certification

Application Deadline

10 July 2017

Project Type

GHG Accounting Project

Date Published

28 June 2017

Delivery Period

15 July 2017 – 15 December 2017

Target Group for Opportunity

Climate-KIC (CKIC) Community Members

Note this opportunity is outside the EIT grant and any CKIC Community Member who participates will not be eligible to submit the activity (and costs incurred) to the FPA/SGA framework for reimbursement.

Business Background

About Climate-KIC

CKIC is the EU's largest public private partnership addressing climate change through innovation. We educate students and experienced professionals on the challenges and opportunities of climate change; we develop, implement, and facilitate innovation programs and projects with leading climate innovators; and we incubate and accelerate climate-relevant start-ups. In so doing, we focus on four thematic priority areas: urban transitions, sustainable land use, sustainable production systems, and decision metrics and finance. We deliver our activities through a partnership of more than 250 leading organizations from the public, private, and academic sectors, and with more than 150 staff in major cities across Europe.

About Audi



Audi stands for sporty vehicles, high build quality and progressive design – for “Vorsprung durch Technik.” Founded in 1899 as Horch & Cie. Motorwagen-Werke by August Horch, today the company is among the world’s leading producers of premium cars. The company’s innovation capability is one reason behind its success: Audi has written automotive history with its quattro permanent all-wheel drive, with lightweight construction using the aluminum Audi Space Frame (ASF) and now piloted driving. The company is active in more than 100 markets worldwide and is growing continuously. In 2016 the Audi Group delivered 1,871,350 Audi brand cars to customers. The company currently employs 88,000 people worldwide, of which more than 60,000 are employed at the German sites in Ingolstadt and Neckarsulm.

Audi has produced the Audi A1 family exclusively in Brussels, the European capital, since 2010. In 2016, 105,252 automobiles drove off the production line there. Production of the first purely electric-drive SUV from Audi will start in the capital of Belgium in 2018. The plant will also have its own battery production. Audi Brussels wants to produce this new electrical car in a CO₂ neutral factory.

Task & Responsibilities

Audi is looking to reach out to CKIC Community Members in order to find leadership on a carbon-neutral certification of an automotive production facility in Brussels, Belgium. This leading automotive car manufacturer is working with CKIC and others on identifying eco-innovation opportunities to mitigate the CO₂ footprint of its operations. One of the first activities selected is to verify the current environmental performance (*scope 1+2*) of a manufacturing plant, and subsequent process to be certified as carbon-neutral against the BSI PAS2060 Carbon Neutrality standard.

This manufacturing plant located in Brussels will produce the first electric vehicle of this global brand in 2018. Based on their internal environmental data management system, the organisation has calculated their scope 1 and 2 GHG emissions and respective mitigation measures as described on the table 1:

Table 1 – Forecasted Scope 1 & 2 GHG emissions for 2018

| Brussels Manufacturing site - GHG Sources | Scope | Emissions tCO ₂ | CO ₂ Neutral Activity |
|---|-------|----------------------------|---|
| Fuel Natural gas | 1 | 28,341 | Green gas certificates produced in UK, CO ₂ emissions due to the production of Biogas will be compensated with credits offsets |
| Fuels Heating oil | 1 | 170 | Credits Offset |
| District cooling | 2 | 0 | - |
| District heating | 2 | 0 | - |
| Refrigerant losses and SF ₆ | 1 | 0 | - |
| Fuels for Development (including test stands) | 1 | 0 | - |

| | | | |
|-------------------------|---|-----|--|
| Fuels Business vehicles | 1 | 402 | Credits Offset |
| Fuels Other (logistics) | 1 | 0 | - |
| Electricity | 2 | 0 | Purchase of green energy and On-site RE production |
| VOC Combustion | 1 | 185 | Credits Offset |

The organisation selected for this work will report directly to the car manufacturer Environmental director.

Project Phases

This carbon neutral certification project has 4 main phases:

Phase 1: Define scope and preparatory work

- This must be clearly defined, by name and by description of the relevant legal and/or physical boundaries.

Phase 2: Measurement of the scope's emissions footprint

- Identify and provide a complete and accurate GHG inventory over a relevant timescale.
- Measure, validate and verify the GHG emissions' scope 1 and 2 data
- Conduct quality assurance of all GHG emissions assessed.

Phase 3: Mapping of reduction activities and GHG mitigation impact

- Measurement and verification of the GHG emissions reduction activities and off-set instruments towards carbon neutral target
- Assess and make recommendations on the GHG reductions plan (internal and external activities)

Phase 4: Communicate Carbon-Neutral outcomes

- Provide accurate and transparent information on the carbon neutral certification achieved (report and label). On the label should be mentioned "CO2 neutral factory". The label must be valid from 01/01/2018.

Audi has agreed that CKIC will be involved and informed on each phase of the project, including invitations to the update and milestone meetings so as to further facilitate the knowledge sharing goals of the CKIC community.

As the company wants to be CO2-neutral for 2018 it is important that all 4 phases are finished before the end of the year.

Project Set-Up

Once the Proposal is approved, the successful organisation will be invited to a kick-off meeting with the automotive manufacturer to review the proposal and confirm key milestones. CKIC will also be in attendance.

The service contract will be signed directly with the car manufacturer, consequent invoices and payments of service will be dealt directly with the automotive manufacturer. Climate-KIC main role in this project is as facilitator/community outreach.

Selection Criteria & Process

The proposals will be reviewed by Audi Environmental Lead of the Automotive Manufacturer and the Sustainable Production Systems theme. Announcement of the outcome can be expected within 1 week of the submission deadline (*07 July 2017*).

Submission Instruction

Please submit your proposal using the specific Project Proposal Form by **10 July 2017** to edgar.galrao@climate-kic.org. Applications can be submitted at any time from the launch of the call to the closing date. The proposal must be submitted in pdf format.

Please note: No extensions will be granted under any circumstances. Any changes to the proposal requested by the applicant after submission will not be allowed. Please ensure that all the information requested in the Proposal Form is provided. Without the availability of the relevant information, the application will not be progressed.

Other Information

Conflicts of interest: Conflicts of interest should be declared by applicants before submitting proposals.

Language: All application documents should be written in English. Exceptions can be made for supporting documents, such as Letters of Intent, which could be written in one of the official languages spoken in the country the application is submitted. In order to be assessed by all reviewers, you may choose to provide a short summary in English. Climate-KIC reserves the right to request for a translation at any time.