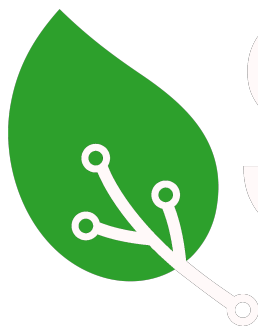


Session Program

May 4 - 8, 2026

Sustainability Conference for



SC4RC

Responsible Research Computing

SC4RC 2026

Contributed Talks

CERN, 500/1-001 - Main Auditorium

Tue, May 5

11:30 AM

Contributed Talks: (Track A) Project Design

Session | Location: CERN, 500/1-001 - Main Auditorium

11:30 - 11:55 AM

Estimating the environmental impact of computing for a future accelerator facility

Speaker

Dr Hannah Wakeling

11:55 AM - 12:20 PM

Integrating sustainability in the design of the Wide-field Spectroscopic Telescope's data processing and storage

Speaker

Laurane Fréour

12:20 - 12:30 PM

Discussion

12:30 PM

11:30 AM

Contributed Talks: (Track B) Hardware/Software Optimisation

Session | Location: CERN, 40/S2-D01 - Salle Dirac

11:30 - 11:55 AM

Understanding and Evaluating DRAM's Operational and Embodied Emissions

Speaker

Mr Aditya Manglik

11:55 AM - 12:20 PM

Mitigate. Innovate. Sustain.

Speaker

Wilco Burggraaf

12:20 - 12:45 PM

Reducing machine learning model emissions by integrating physics knowledge

Speaker

Daisy Bradley

12:45 - 1:10 PM

Sustainability-Aware Workload Shifting Beyond Carbon Intensity

Speaker

Geerd-Dietger Hoffmann

1:10 PM

12:30 PM

Contributed Talks: (Track A) Data Storage

Session | Location: CERN, 500/1-001 - Main Auditorium

12:30 - 12:55 PM

Engineering a Scalable, FAIR Data Infrastructure for Resource-Efficient Research

Speaker

Irufan Ahmed

1:10 PM

12:55 - 1:10 PM

Discussion

Wed, May 6

9:15 AM

Contributed Talks: (Track A) Community Building and Behavioural Change

Session | Location: CERN, 503/1-001 - Council Chamber

9:15 - 9:40 AM

Green Research Software Engineering: A new role to Embed Sustainability in Research Software

Speaker

Dr Kirsty Pringle

9:40 - 10:05 AM

Building Communities in Green Computing

Speaker

Anica Araneta

10:05 - 10:30 AM

Integrating environmental sustainability into bioinformatics training and its delivery

Speaker

Dr Flaminia Zane

10:30 AM

9:15 AM

Contributed Talks: (Track B) Carbon Accounting

Session | Location: CERN, 500/1-001 - Main Auditorium

9:15 - 9:40 AM

Towards a Federated Accounting Framework for Sustainable Research Computing: A Landscape Review of the UK's Digital Research Infrastructure

Speaker

Deniza Chekrygina

9:40 - 10:05 AM

Life cycle assessment of the LHCb data centres : Overall impacts & Cooling systems comparison

Speaker

Roman Dandoy

10:05 - 10:30 AM

What does that really tell us? Interpreting numbers in sustainability reports

Speaker

Romain Jacob

10:30 AM

11:00 AM

Contributed Talks: (Track A) Community Building and Behavioural Change

Session | Location: CERN, 503/1-001 - Council Chamber

11:00 - 11:25 AM

UKRI's approach to Sustainable Digital Research Infrastructure

Speaker

Dr Emily Wallis

11:50 AM

11:25 - 11:50 AM

Green DiSC: open-access community-driven Digital Sustainability Certification scheme

Speaker

Loic Lannelongue

11:00 AM

Contributed Talks: (Track B) Carbon Accounting

Session | **Location:** CERN, 500/1-001 - Main Auditorium

11:00 - 11:25 AM

An environmental assessment of computing services in higher education [Online]

Speakers

Caterina Doglioni, Tobias Fitschen

Location

CERN, 500/1-001 - Main Auditorium

11:25 - 11:50 AM

Carbon Accounting for UK Research Computing: proof of concept & beyond.

Speaker

Alex Owen

Location

CERN, 500/1-001 - Main Auditorium

11:50 AM - 12:15 PM

How accurate are current tools and models for estimating software energy consumption? [Online]

Speaker

Andreas Brunnert

Location

CERN, 500/1-001 - Main Auditorium

12:15 - 12:30 PM

Discussion

Location

CERN, 500/1-001 - Main Auditorium

12:30 PM

Thu, May 7

11:45 AM

Contributed Talks: (Track A) Cluster Operations

Session | Location: CERN, 40/S2-C01 - Salle Marie Skłodowska-Curie

11:45 AM - 12:10 PM

An Energy-Efficient Data Centre with Heat recovery at Queen Mary University of London [Online]

Speaker

Dr Sudha Ahuja

12:10 - 12:35 PM

Wattnet: High-Resolution Carbon and Water Intensity Modelling to Enable Impact-Aware Research Computing.

Speakers

JAIME IGLESIAS BLANCO, Mr Jaime Iglesias Blanco

12:35 - 1:00 PM

Adaptive Infrastructure and Efficiency Strategies at a GridKa WLCG Tier-1 Center

Speaker

Lars Sowa

1:00 - 1:15 PM

Discussion

1:25 PM

11:45 AM

Contributed Talks: (Track B) Carbon Quantification Tools

Session | Location: CERN, 500/1-001 - Main Auditorium

11:45 AM - 12:10 PM

GreenMetaData: Standardising Environmental Impact Reporting for Computational Research [Online]

Speaker

Jyoti Bhogal

12:10 - 12:35 PM

The One Token Model: A Multi-Layer Framework for the Granular Estimation of AI Inference Energy

Speaker

Mr Mathieu Francois

12:35 - 1:00 PM

Towards a better understanding of environmental impacts of IT : evaluation of carbon emissions generated by organizations' IT services

Speaker

Julia Paolini

1:00 - 1:25 PM

Using co-design to improve computing carbon calculators

Speaker

Dr Christina Bremer

1:25 PM

2:45 PM

Contributed Talks: (Track A) Cluster Operations

Session | Location: CERN, 500/1-001 - Main Auditorium

2:45 - 3:10 PM

Optimizing Energy Efficiency at the WLCG PIC Tier-1: From Predictive Job Scheduling to Real-Time CPU Control

Speaker

Jose Flix Molina

3:10 - 3:35 PM

SUSFECIT: Objectives and Concepts

Speaker

Dr Dwayne Spiteri

3:35 - 4:00 PM

Enhancing Sustainable Research: A holistic Approach to Sustainable Computing

Speakers

Georgios Sarantakos, Xavier Eric Ouvrard

4:00 PM