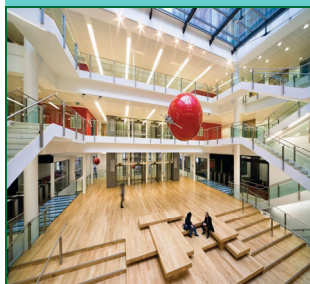


Issue 3

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LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

# The CKK Electrification Newsletter

**Dear Colleagues,**

*This newsletter provides an update on the Cheng Kin Ku Electrification project and associated service shut-downs and mitigation measures.*

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## Estates Division

### Cheng Kin Ku Building Electrification

#### What Estates are doing in Cheng Kin Ku Building (CKK)

This newsletter provides an update on the ongoing works in the Cheng Kin Ku Building Electrification including information on the measures being taken to reduce the impact of the forthcoming service shutdown works.

#### Electrification

As announced in the February 2023 news letter, the Cheng Kin Ku is the first building in the carbon reduction programme to be converted to be fully powered by electricity, which will reduce the Campus gas usage by approximately 8%. The project will help LSE meet its Net Carbon Zero commitment by 2030.

To deliver this target, the School has adopted a programme of electrification of gas-fed systems campuswide to take advantage of the decarbonisation of the UK electricity grid (LSE already sources electricity from 100% renewable sources). What this means in CKK is that the gas boilers in the basement and chillers on the roof are being replaced with more sustainable air source heat pumps.



#### Project Milestones achieved:

- Three successful shutdowns to install new LV panel in the basement completed on 18-19 March 2023, over Easter and on 15-16 April 2023.
- Chillers have been removed from the roof, replaced by Air Source Heat Pumps, two crane lifts were required to complete the above.
- Packaged plant room has been installed on the roof and commissioned.
- Gas supply has been turned off on 17 May 2023.
- Gas boilers and pipework have been stripped out to make space for new water heat pumps and buffer vessels.
- New electric water heaters have been installed in the basement and are now in use.

*Yours sincerely* 

Director of Capital Development



**Estates Division**  
Capital Development

# Cheng Kin Ku Building Electrification

## Electrification - Work Phases, Services Shutdowns and Planned Disruption

The project commenced on 8 March 2023 and will complete on 17 August 2023. The project consists of a sequence of planned plant replacements which are being undertaken in several phases. The red line below indicates current progress. To date three building shut downs have been successfully completed.

Work Phase and disruption	March 2023	April 2023	May 2023	June 2023	July 2023	August 2023	
LV Panel replacement	[Orange bar]					[Orange bar]	
Decommissioning of chillers and installation of air source heat pumps	[Yellow bar]					[Yellow bar]	
Installation of condenser pipework from the roof to the basement;		[Green bar]					
Decommissioning of boilers.			[Blue bar]			[Blue bar]	
Installation of water heaters serving B, LGF and GF toilets and kitchen		[Dark Blue bar]					
UPS replacement					[Light Blue bar]	[Light Blue bar]	
Contractor's site / workshop set up.	[Purple bar]					[Purple bar]	

The remaining works will result in the following disruption to the building prior to completion:

**Bicycle Parking Closure – 8 March - 17 August 2023** (Please use alternative bike parking and shower facilities in the LGF of the Marshall Building. Please be aware that on completion of the project, the bike parking will be relocated to the adjacent area in the basement, further information to follow.)

**Full building shutdowns (No access to the building) on Saturday 15 July and Sunday 16 July 2023 and Saturday 5 August 2023.** Please note that on this day there will be no data network available to the building, remote access to desk PC's will not be possible.

**Cooling to the building has been reinstated, however, there will be no heating to the building – 02 May – 17 August 2023.**

### Reporting Issues:

If staff or students find any spaces that are cold, facilities that have no hot water or any building damage please report this via the Estates Helpdesk at [Estates-Help-Desk@lse.ac.uk](mailto:Estates-Help-Desk@lse.ac.uk) and the team will aim to prioritise these areas.

If you have any queries about the upcoming works please contact:

Barbara Moldawa— Senior Project Manager: [b.moldawa@lse.ac.uk](mailto:b.moldawa@lse.ac.uk)

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