

NUS Sustainable Futures x ESI Distinguished Lecture Series on the role of battery electric vehicles in net-zero systems || 16 July

6 Jul 2026 || TO NUS Community

Sent on behalf of NUS Sustainable Futures and Energy Studies Institute (ESI)

Join senior scientist Ramachandran Kannan from Paul Scherrer Institute, Switzerland, as he discusses how battery electric vehicles (BEVs) can cut emissions, affect the power grid, support renewables and guide energy policy decisions.

 **16 July 2026 (Thursday)**

 **11 am – 12 pm**

 **NUS Engineering Auditorium building
06-02 Seminar Room**

 **Register [here](#) now**



NUS SUSTAINABLE FUTURES DISTINGUISHED LECTURE SERIES

The Role of BEV in Achieving Net-Zero Emissions and Their Impacts on Energy and Electricity Systems

SPEAKER: RAMACHANDRAN KANNAN

**16 JULY 2026 (THURSDAY)
11 AM - 12 PM**

**NUS EA-06-02 SEMINAR ROOM
9 ENGINEERING DR 1,
SINGAPORE 117575**

The seminar room is located at the NUS Engineering Auditorium building, 6th Floor.

REGISTER HERE:



Ramachandran Kannan
Senior Scientist
Paul Scherrer Institute,
Switzerland

The global energy system is undergoing a profound transformation to achieve net-zero greenhouse gas (GHG) emissions and mitigate climate change. The transport sector is a major contributor to current emissions, and battery electric vehicles (BEVs) are emerging as a key technological solution for decarbonization. However, the impacts of BEV adoption extend beyond the transport sector. By electrifying mobility, BEVs shift part of the energy demand and associated emissions burden to the power sector, which is simultaneously facing the challenge of integrating increasing shares of renewable energy.

Drawing on over 20 years of industry and academic experience, Kannan, senior scientist at the Laboratory for Energy and Systems Analysis at the Paul Scherrer Institute, will showcase the transition to BEVs within a broader, fully integrated Swiss energy system characterised by strong sector coupling. He will share insights into the impacts of large-scale BEV deployment across the energy system and demonstrate how energy system models can support policy analysis and decision-making.

NUS Sustainable Futures
In collaboration with the Energy Studies Institute (ESI)