

# The 6<sup>th</sup> International Forum on Big Data for Sustainable Development Goals (FBAS 2026)

## Session Proposal Template

<b><i>Session Title</i></b>	<i>Energy Infrastructure Survey Based on Remote Sensing Big Data</i>	
<b><i>Session Chair(s)</i></b>	<i>Name</i>	SUN Liqun
	<i>Affiliation</i>	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences
	<i>Profile (200-word limit)</i>	Sun Liqun holds a Ph.D. from the University of Hong Kong and serves as an Associate Researcher at the Shenzhen Institutes of Advanced Technology (SIAT), CAS. His research focuses on photovoltaic remote sensing, urban ecological remote sensing, and carbon footprint accounting. He has frequently contributed to the development of case studies on urban sustainable development for the International Research Center of Big Data for Sustainable Development Goals (CBAS) and has publicly released a global high-precision photovoltaic remote sensing dataset covering the period from 2019 to 2025.
	<i>e-mail</i>	lq.sun@siat.ac.cn
<b><i>Contact Person</i></b>	<i>Name</i>	SUN Liqun
	<i>e-mail</i>	lq.sun@siat.ac.cn
<b><i>Preferred Topics</i></b>	大数据科学监测与评估/Scientific Monitoring and Evaluation with Big Data	

<p><i>Session Description</i> <i>(200-word limit)</i></p>	<p>Against the backdrop of accelerating global energy transition and advancing carbon neutrality goals, accurately mapping the spatiotemporal distribution and operational status of energy infrastructure has become a core requirement for energy security, climate governance, and sustainable development. This special issue focuses on cutting-edge applications of remote sensing technology in the energy sector, bringing together global scholars to address key scientific challenges including high-resolution intelligent extraction of energy facilities, long-term sequential dynamic monitoring, carbon emission inversion, renewable energy resource assessment, and quantification of ecological impacts. The special issue aims to build an interdisciplinary communication platform, promote the deep integration of multi-source remote sensing data with artificial intelligence and big data technologies, and break the bottlenecks of traditional energy data—limited coverage, delayed updates, and insufficient accuracy. It will provide scientific support for global energy policy formulation, industrial planning, and the achievement of SDG 7. We sincerely invite experts and scholars in remote sensing science, energy engineering, environmental science, and related fields to submit their contributions and jointly advance innovative research in global energy infrastructure remote sensing.</p>
<p><i>Expected outcomes</i> <i>(50-word limit)</i></p>	<p>The session aims to build an interdisciplinary communication platform, promote the deep integration of multi-source remote sensing data with artificial intelligence and big data technologies, and break the bottlenecks of traditional energy data—limited coverage, delayed updates, and insufficient accuracy. It will provide scientific support for global energy policy and SDG 7.</p>

Please submit filled session proposal to [fbas@cbas.ac.cn](mailto:fbas@cbas.ac.cn) before **April 20, 2026**