



[WORKSHOPS 2LIFEBAT]

***ROBUST SOLAR POWERED STORAGE
SYSTEMS WITH SECOND-LIFE BATTERIES
AND THEIR ECONOMIC AND ECOLOGICAL
POTENTIAL***

MAY 2023



UNIVERSIDADE FEDERAL
DE SANTA CATARINA

Date: May 19th, 2023 – 8:30 h (13:30 CEST).

Venue: Laboratório Fotovoltaica/UFSC, at Sapiens Parque, Cachoeira do Bom Jesus, Florianópolis-SC ([Auditório do Laboratório Fotovoltaica-UFSC](#)).

Registration for in person participation: [Registration form](#)

Link of online transmission: [Youtube Link](#)

Planned activities:

- Workshop/seminars;
- Networking;
- Technical tour to the UFSC Solar Energy Lab and the new storage and hydrogen Building.

Attendees:

- Students;
- Researchers;
- Partner companies.

FLORIANÓPOLIS WORKSHOP

AGENDA

Time	Time CEST	Speaker	Institution	Topic
08:30 – 9:00	13:30 – 14:00	Prof. Ricardo Rüther Prof. Sergej Diel Pedro Rodriguez Prof. Iury Bessa Prof. Samuel Luna de Abreu	UFSC TU Ingolstadt GIZ UFAM IFSC	Opening remarks
09:00 – 9:20	13:50 – 14:20	Arne Jeppe	UDE	“Impact of the circular economy on international supply chains “
09:20 – 9:40	14:20 – 14:40	Prof. Emanuele Marini	ZSW-BW	“From Concept to Breakthrough: Innovation in Rechargeable Alkaline Zn-MnO2 Batteries for Stationary Energy Storage”
09:40 – 10:00	14:40 – 15:00	Prof. Sergej Diel	TU Ingolstadt	“Development and testing of batteries in automotive industry”
10:00 – 10:20	15:00 – 15:20	Prof. Peter Adelman (online)	TH Ulm	"BMS for ZnMn Battery"
10:20 – 10:40	15:20 – 15:40	Jan Haß	TU Ingolstadt	‘Development of measuring device to categorize used cells“
10:40 – 11:00	15:40 – 16:00	Coffee break		
11:00 – 11:15	16:00 – 16:15	Lucas Rafael do Nascimento	UFSC	“The role of batteries in decarbonizing Amazon”
11:15 – 11:25	16:15 – 16:25	Joaquim Manoel Gonçalves	IFSC	“Electrothermal Simulation of EV Batteries under driving Conditions”
11:25 – 11:35	16:25 – 16:35	Marcelo Vandresen	IFSC	“Insertion of Electric Vehicles in Public Fleets, through the Conversion of Combustion engines to Electric Traction”
11:35 – 11:50	16:35 – 16:50	Vicenzo Benetti	Atlas Power	“Allying green energy generation, storage and usage”
11:50 – 12:05	16:50 – 17:05	Aline Kirsten V. de Oliveira	UFSC	“The challenges of applications of second-life batteries”
12:05 – 12:25	17:05 – 17:25	Mr. Nam Truong (online)	STABL Energy	“Extending battery life – Opportunities and challenges of the second-life battery storage”
12:25 – 12:45	17:25 – 17:45	Pascal Förg	TH Ulm	“Show Me the Money: Unlocking Funding Opportunities for Your Next Project”
12:45 – 13:05	17:45 – 18:05	Prof. Ingo Stadler	TH Köln	“Maximizing Grid Utilization and Ecological Footprint of e-car Batteries considering sector coupling and bidirectional charging”
13:05 – 13:30	18:05 – 18:30	Discussions / Round table / New Partnership Opportunities		
13:00 – 15:00		Lunch		
15:00 – 17:00		Technical tour to the UFSC Solar Energy Lab and the new storage and green hydrogen Building / Networking		

Date: May 24th, 2023 – 8:00 h (14:00 CEST)

Local: Auditório do CETELI, UFAM.

Video call link (Google Meet): <https://meet.google.com/yzd-cgoz-cnu>

Planned activities:

- Workshop/seminars;
- Networking;
- Technical tour.

Attendees:

- Students;
- Researchers;
- University staff;
- Partner companies.

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Time	Time CEST	Speaker	Institution	Topic
08:00 – 8:20	14:00 – 14:20	Prof. Ricardo Rüther Prof. Sergej Diel Pedro Rodriguez Prof. Iury Bessa Prof. Samuel Luna de Abreu	UFSC TH Ingolstadt GIZ UFAM IFSC	Opening remarks
08:20 – 8:50	14:20 – 14:50	Arne Jeppe	UDE	Energy management system applied to second-life batteries
08:50 – 9:30	14:50 – 15:30	João Paiva	Voltz Motors	Market of electric motorcycles in Brazil: challenges and expectations
9:30 – 10:00	15:30 – 16:00	Carlos Rufino	TH Ingolstadt	Cell swelling mechanisms and measurement setup
10:00 – 10:10	16:00 – 16:10	Q/A		
10:10 – 10:20	16:10 – 16:20	Coffee break		
10:20 – 11:00	16:20 – 17:00	To be defined	FAS	PV-based Rural electrification of Amazonia Rural Communities
11:00 – 11:30	17:00 – 17:30	Daniel Koch	TH Ingolstadt	Cell swelling mechanisms and measurement setup
11:30 – 12:10	17:30 – 18:10	Wilson Filho	BYD	Electric Vehicles and Second-life batteries in Brazil
12:10 – 12:20	18:10 – 18:20	Q/A		
12:20 – 13:00	18:20 – 19:00	Round Table		
13:00 – 15:00		Lunch		