

#### FGV | SCHOOL OF APPLIED MATHEMATICS

#### CERTIFICATE

We certify that Alexandre Zucarato participated in and delivered the plenary talk entitled "Optimization tools for hydropower scheduling: challenges and opportunities from ONS's perspectives" at the 8<sup>th</sup> International Conference on Hydropower Scheduling in Competitive Electricity Markets – Hydro Scheduling 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 26 to May 28, 2025.

Bernardo FP Carta

Bernardo Costa Organizing Comittee

















We certify that Andrew Philpott participated in and delivered the plenary talk entitled "Experimenting with SDDP: lessons from New Zealand" at the 8<sup>th</sup> International Conference on Hydropower Scheduling in Competitive Electricity Markets – Hydro Scheduling 2025 held at School of Applied Mathematics of Getulio Vargas Foundation -FGV EMAp, Rio de Janeiro, from May 26 to May 28, 2025.

Bernardo FP Cafa

Bernardo Costa Organizing Comittee



















We certify that Claudia Alejandra Sagastizábal participated in and delivered the plenary talk entitled "Joint chance-constrained Stochastic Dynamic Dual Programming" at the 8<sup>th</sup> International Conference on Hydropower Scheduling in Competitive Electricity Markets – Hydro Scheduling 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 26 to May 28, 2025.

Bernardo FP Carta

Bernardo Costa Organizing Comittee



















We certify that Cristiane Barbosa da Cruz Oliveira participated in and delivered the plenary talk entitled "Challenges in the individual modeling of hydro plants in long term power generation planning in Brazil: convergence properties, water values and backward scenario representation" at the 8<sup>th</sup> International Conference on Hydropower Scheduling in Competitive Electricity Markets – Hydro Scheduling 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 26 to May 28, 2025.

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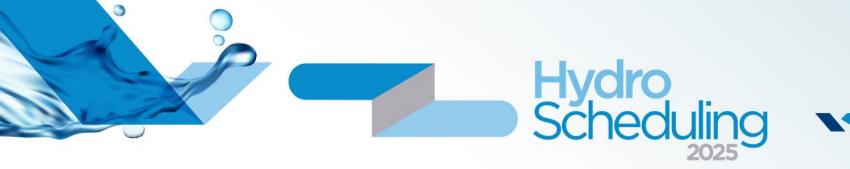


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We certify that Edson Silva participated in and delivered the plenary talk entitled "Modeling hydrothermal scheduling and prices: the market pains" at the 8th International Conference on Hydropower Scheduling in Competitive Electricity Markets – Hydro Scheduling 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 26 to May 28, 2025.

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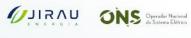
















We certify that Erlon Finardi participated in and delivered the plenary talk entitled "Tradeoffs between hydropower modeling approaches in the day-ahead optimization model in Brazil" at the 8<sup>th</sup> International Conference on Hydropower Scheduling in Competitive Electricity Markets – Hydro Scheduling 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 26 to May 28, 2025.

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We certify that Hans Ivar Skjelbred participated in and delivered the plenary talk entitled "Hydropower scheduling on next-generation hardware platforms" at the 8<sup>th</sup> International Conference on Hydropower Scheduling in Competitive Electricity Markets – Hydro Scheduling 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 26 to May 28, 2025.

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We certify that Joachim Dahl Jensen participated in and delivered the plenary talk entitled "Market modeling and hydro scheduling in Statkraft with incorporation of new technologies" at the 8<sup>th</sup> International Conference on Hydropower Scheduling in Competitive Electricity Markets – Hydro Scheduling 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 26 to May 28, 2025.

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We certify that Juan Ignacio Perez-Diaz participated in and delivered the plenary talk entitled "Fatigue-aware short-term hydro scheduling" at the 8<sup>th</sup> International Conference on Hydropower Scheduling in Competitive Electricity Markets - Hydro Scheduling 2025 held at School of Applied Mathematics of Getulio Vargas Foundation -FGV EMAp, Rio de Janeiro, from May 26 to May 28, 2025.

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#### **CERTIFICATE**

We certify that Mario Veiga Ferraz Pereira participated in and delivered the plenary talk entitled "Multiscale stochastic optimzation of large hydro systems with Al-driven climate scenarios and HPC" at the 8<sup>th</sup> International Conference on Hydropower Scheduling in Competitive Electricity Markets – Hydro Scheduling **2025** held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 26 to May 28, 2025.

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We certify that Rodrigo Fuentes participated in and delivered the plenary talk entitled "Mathematical Optimization's evolution to accommodate formulations with nonlinearities" at the 8<sup>th</sup> International Conference on Hydropower Scheduling in Competitive Electricity Markets – Hydro Scheduling 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 26 to May 28, 2025.

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We certify that Vitor de Matos participated in and delivered the plenary talk entitled "Suite for Energy: An ecosystem to scaling tools for decision-making in the Energy Sector" at the 8<sup>th</sup> International Conference on Hydropower Scheduling in Competitive Electricity Markets – Hydro Scheduling 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 26 to May 28, 2025.

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