

BIREC 2016 was a TREMENDOUS EVENT!

#### **Victor Muñoz**

Managing Director and Regional Head Latin America **Denham Capital** 

### SEIZING THE OPPORTUNITY IN BRAZIL'S HIGH-REWARD RENEWABLE ENERGY SECTOR



WWW.BIRECCONGRESS.COM

# WELCOME TO **BIREC**

It is my honour to give you an insight into the **Brazil International Renewable Energy Congress – BIREC**, which we are delighted to be hosting in Rio de Janeiro. Brazil is Latin America's largest renewable energy market, with a huge economy and an enormous demand for affordable and sustainable electric power. **In 2016 Brazil saw US\$6.8 billion in renewable energy investment**, between 2015 and 2017 Brazil boasts a 400% increase in installed solar capacity. The Minister of Mines and Energy has announced a major overhaul of the Brazilian power sector which is set to open up a host of opportunities in renewable energy development following the country's period of recession.

BIREC returns for its second year as **Brazil's leading strategic and investment focused renewable energy event.** The content rich agenda provides the latest updates and **in-depth insights into Brazil's energy sector and covers distributed generation, utility scale, wind and solar energy, energy storage and commercial and industrial power projects.** The 2017 speaker lineup reflects the market's highest level of seniorty, making BIREC the place to meet Brazil's primary decision makers, largest investors, most active financiers, top developers, large energy consumers and key industry stakeholders.

The only event of its kind, BIREC is the place Brazil's renewable energy leaders come to do business and secure investment, driving the country's renewable energy industry across a host of networking opportunities, including a VIP dinner, drinks receptions and online networking platform.

I look forward to welcoming your personally in Rio de Janeiro this October!

Isabella Lewis Programme Director BIREC



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### BIREC 2016 WAS ONE OF THE BEST EVENTS I attended. The presentations, panels and most of all, the high-level networking were very useful to my company

Bruno Wilmer Fontes Commercial Director Solstício Energia

# WHAT TO EXPECT

### **OVER 300 SENIOR-LEVEL DECISION MAKERS**

driving Brazil's renewable energy market

### **90 EXPERT THOUGHT LEADERS**

share their collective experiences and forecasts

**35 HOURS OF NETWORKING OPPORTUNITIES** to build and nurture essential relationships in a relaxed and comfortable atmosphere

### **27 HOURS OF INDUSTRY DRIVEN CONTENT** giving you current and practical

insights to drive your business forward

### **INNOVATIVE NEW FORMATS AND SESSIONS**

engineered to maximise peer-to-peer interaction & networking

# NEW CONTENT AND SPEAKERS



- Residential and C&I solar stream
- Over 12 hours of Finance
   content
- One year on updates from projects on the ground
- Analysing the opportunities ahead for **distributed generation**
- New format, new speakers, new city!

## **NEW NETWORKING OPPORTUNITIES**

- NEW and improved online networking tool
- Dedicated meeting zones for one to one private meetings
- VIP Gala Dinner sponsored by



All of Brazil's key stakeholders under one roof

BIREC 2016 **WAS AN EXCELLENT OPPORTUNITY** to improve my network and exchange knowledge with key persons in the renewable business industry



Marcos Meireles Chief Executive Officer Rio Energy

# WHAT'S DIFFERENT **ABOUT BIREC?**



**SPEED NETWORKING SESSION** – take just **30 seconds to introduce yourself** and exchange business cards



FLEX SPONSORED VIP GALA DINNER – the perfect opportunity to network and enjoy good food and fine wine after a busy conference day



**STRATEGY AND INVESTMENT FOCUSED PLENARY SESSIONS** – **providing practical lessons** for developing a successful renewable energy business in Brazil



**SOLAR, WIND AND ENERGY STORAGE STREAMS** – allow you to **explore the opportunities of each technology** in detail and network across Brazil's renewable energy sector



**DRINKS RECEPTION** – giving you the opportunity to **meet potential business partners** and nurture essential relationships



DEDICATED FINANCE SUMMIT on day one – deep-diving into the economics, commerical viability and financing options of Brazil's renewable energy industry



VIP SOLAR PROSUMERS, DG DEVELOPERS, INSTALLERS AND DISTRIBUTORS LUNCH by invitation only, meet Brazil's leading equipment distributors.



**ROUNDTABLE DISCUSSIONS** – enabling you to be part of the dialogue, discussing different market strategies, solutions and opportunities, as well as **expanding your network** 



**1-2-1 ONLINE NETWORKING** – giving you the opportunity to **schedule up to 40 1-2-1 meetings in advance** and throughout the congress



**REAL LIFE CASE STUDIES of renewable energy projects** – so that you can hear from those who operate in the market and benefit from practical true experiences

# WHY ATTEND BIREC?

### CONTENT

We conduct over **100 in-depth** interviews with market leaders and sector experts. These detailed conversations with those who have built successful renewable energy businesses ensure that our content is up-to-date and reflective of the current renewable energy climate. BIREC unveils new investment opportunities, financing strategies, regulatory updates, risk-reward perspectives, lessons from success stories and much more!



### MAXIMISE YOUR **NETWORKING OPPORTUNITIES**

book a **PREMIUM PASS** today!

Contact DAVID SANSOM to **REGISTER NOW** 

DAVID SANSOM COMMERCIAL DIRECTOR T: +44 (0)20 3384 5791 E: david.sansom@greenpowerglobal.com



### **NETWORKING**

Save time and money by meeting all Brazil's key stakeholders under one roof. With an easy-to-use, bespoke networking tool and a **host of** networking opportunities over fine food and drink, BIREC gives you the opportunities and tools to build and nurture essential relationships.

BIREC 2016 had TOP MANAGERS AND DECISION MAKERS IN ATTENDANCE. BIREC

2017 is not to be missed!

Valdomiro Pinheiro de Lima Jr **ME3 Engenharia** 

# ACCESS THE BRAZILIAN POWER MARKET

### **OPPORTUNITIES**

Brazil is not only the biggest power market in Latin America but it also has a greater capacity for wind and solar power than the installed capacity of all other Latin American countries combined.

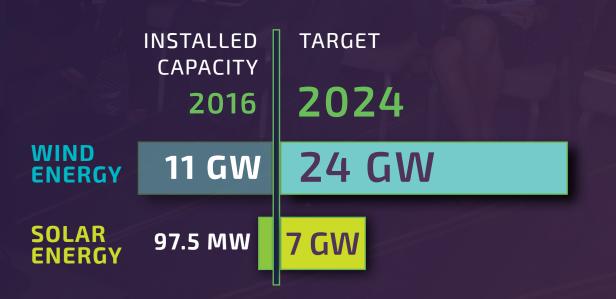
With a population of over 200 million people consuming nearly 600,000 GWhs of electricity per year, power producers can rely on consistent electricity demand. Brazil boasts an **established energy auction system** providing security to power producers and legislation supporting renewable energy development, including commitment to COP 21.

In the last year Brazil has seen enormous advances in renewable energy technologies; and subsequently increased competitiveness of wind and solar against traditional energy resources combined with a reduction in technological risks.

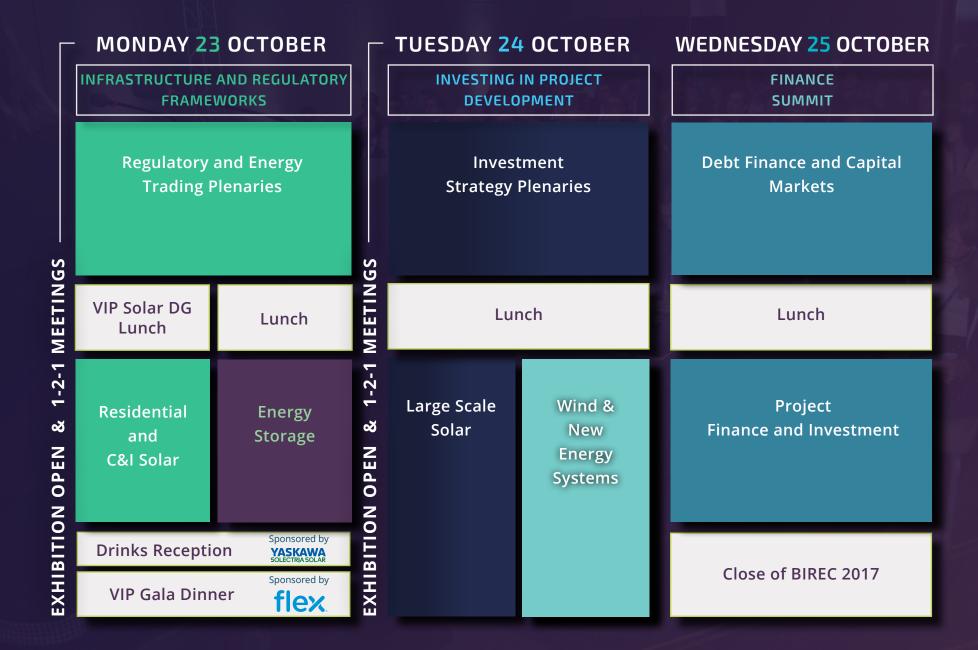
# **US\$6.4BILLION** INVESTED IN SOLAR AND WIND ENERGY IN 2016

SOLAR PV CAPACITY HAS GROWN BY 400% SINCE 2015





# A FIRST GLANCE AT **BIREC 2017**



# **BIREC 2017 FEATURED SPEAKERS**

The speaker faculty reflects the market's highest level of seniority making BIREC the place to meet Brazil's primary decision makers, largest investors, most active financiers, top developers and key industry stakeholders.



ALESSANDRO GREGORI New Business Director **CPFL Renováveis** 



**MARCIO TRANNIN** Chief Executive Officer **Enel Solucões** 



LUIZ RENATO OUINALHA Manufacturing & Supply Chain Director for Americas Region **Renault do Brasil S.A** 



DALE A.VANDER WOUDE President & Chief Executive Officer Helio Energias Renováveis



**EDUARDO SERRA** Chief Executive Officer **Energia Capital** 



**PEDRO VAQUER BRUNET** President Solatio



ALESSANDRA MARINHEIRO Chief Executive Officer ContourGlobal LATAM



ANTONIO A. T. DE BASTOS FILHO Chief Executive Officer Omega Energia Renovável



**GILBERTO TONIM** Enerav Manager Nestlé

Goutstanding network: selective, high profile and solid participants. Definitely ONE OF THE BEST EVENTS IN 2016



**Claudio Loureiro** General Manager IA Solar



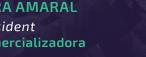
MARCOS MEIRELES Chief Executive Officer **Rio Energy** 



**RENATO BOAVENTURA** CEO Global BU Fibras – Rhodia of Solvay Group



ALESSANDRA AMARAL Director President Energisa Comercializadora





**RODRIGO SAUAIA** Chief Executive Officer ABSOLAR



CORALIE CARRIER-CLÉRAMBAULT Head of Development Thesan



LIGIA BARROS DAS CHAGAS Head of the Alternative Energy Sources Department BNDES



THIAGO VASCONCELLOS **BARRAL FERREIRA** Superintendent of Generation Projects EPE



ADA LI Director Sungrow



VICTOR MUÑOZ Managing Director Denham Capital



EDSON OGAWA Head of Power Sector Project Finance Santander



**ROBERT KLEIN** General Manager Brazil Voltalia



SÉRGIO BRANDÃO Director of Energy in Brazil Actis



**GLAUCIA ROVERI** Energy Services Manager **General Motors** 



**CLAUDIO LOUREIRO** General Manager JA Solar



**CARLOS GROS** SVP M&A Brookfield



**SILVANA BIANCO** Head of Energy South America **ABN AMRO** 



**NELSON FALCÃO** Country Manager Brasil FLEX



**PAULO PEREIRA** Global Vice President, Utilities and Industry **SparkCognition** 



SEBABRATA SARKAR Weather Resource Risk Expert Swiss Re



NICOLA MOREIRA MICCIONE Director of Control and Risk Banco do Nordeste



LEONARDO WALTER Head of Business Development **Enel Green Power** 







**HELTON CHAGAS MENDES** Superintendent of Business Banco do Nordeste

**ANTONIO BARBALHO** Energy Practice Manager for Latin America and the Caribbean World Bank

**JOÃO GRECO PINHEIRO** Managing Director Alupar Investimentos





NATALIA SVEJGAARD Investment Director **Danish Climate Investment** Fund IFU

### ANGELA MARTINS

Chief Representative and Regional Manager for Latin America National Bank of Abu Dhabi



**ALBERTO CUTER** General Manager Latam Jinko Solar



PIERRE-EMMANUEL MOUSSAFIR Country Manager EREN do Brasil



VITOR RODRIGUES Regional Business Field Manager Spain and Latin America **TÜV Rheinland** 



**OLIVIERO ARMEZZANI** Executive VP and Co-owner Convert Italia



**MARGARITA GARCIA DE PAREDES** Lead Investment Officer Inter-American Investment Corporation



**EDUARDO FARHAT** Managing Director **Darby Private Equity** 



**GUILLAUME TIRET** Investment Officer **International Finance** Corporation



**MARKUS JOSEF VLASITS** Commerical and Technical Director Faro Energy



**RICARDO BARROS** Country Manager Brazil Solairedirect



BENJAMIN GUERINI Head - South America Proparco



THATYANNE GASPAROTTO Program and Relationship Manager for Brazil Climate Bonds Initiative



WYLIE LEVONE Partner Hogan Lovells



DIEGO MANSUR Director Sigma Energia Solar



GABRIEL GUIMARAES Sales Director SolarVolt Energia



CARLOS AUGUSTO LEITE BRANDÃO President ABAOUE



BRIAN O'HANLON Head of Business Development OPIC



NELSON COLAFERRO JR President ABSOLAR



CLAUDIO DE ARAÚJO FERREIRA Corporate Vice President EchoEnergia



HELENA CHUNG Research Analyst BNEF



MARCELO DE ANDRADE Partner Earth Capital Partners





THIAGO SENDELBACH Project Finance Director BNP Paribas



ALINE OLIVEIRA Investment Officer APEX-BRASIL



LEANDRO MELLO DE ANGELES Vice President, Project Finance Itaú BBA



GUSTAVO MALAGOLI BIUATTI President ALSOL



ALCIONE BELACHE FERREIRA CEO Renovigi Energia Solar



FRANCISCO DA COSTA LOPES Research Associate ELETROBRAS CEPEL



SERGIO REINAS Founding Partner Grupo Rio Alto



NADIA SCHAREN-GUIVEL Principal Clean Energy Finance Associate Abt Associates



JOÃO LAMPREIA Manager Carbon Trust



EDUARDO TOBIAS RUIZ Director CELA



BRUNO WILMER FONTES LIMA Commercial Director Solstício Energia



CAMILA RAMOS Managing Director CELA



JOSÉ HENRIQUE FALCÃO ZLOCCOWICK Consultant Facto Energy



MARCELO VON GAL Co-Owner Ecori Energia Solar



JULIEN DIAS Founder Julien Dias Finance & Renewable Energy

PEDRO SCHUCH MALLMANN

Director <mark>Renobrax</mark>



GUILHERME DE LUCENA CHRISPIM Commercial Director Liv Energia Eficiente



VICTORIA MASTROBUONO Vice President Global Capital Finance



ENRIQUE GALDOS Senior Manager Nordic Power Partners



CELINA ALMEIDA Director Instituto Totum



AURELIO DE ANDRADE DE SOUZA General Manager USINAZUL

### **MONDAY 23 OCTOBER** — INFRASTRUCTURE AND **REGULATORY FRAMEWORKS**

#### 08:00 - Registration, Networking Coffee and Prescheduled 1-2-1 Meetings

#### 09:00 - Welcome Address

Isabella Lewis, Programme Director, Green Power

#### 09:15 - Chairperson's Opening Remarks

#### 09:25 - Keynote Speech

Rodrigo Sauaia, Chief Executive Officer, ABSOLAR

#### 09:40 - Brazil's Renewable Energy Investment Climate

A panel of leading renewable energy investors discuss their investment strategy in Brazil, followed by Q&A.

- Uncovering the key project characteristics which attract renewable energy
  investors
- Highlighting how renewable energy investors in Brazil mitigate currency risk
- Examining how investors handle challenging project timelines. What certainties do they require from
  - Regulators
  - Developers
  - Manufacturers
  - EPCs

#### Victor Muñoz, Managing Director, Denham Capital

Denham Capital has raised over \$9bn in working capital to invest in energy and resources investment funds.

#### Marcelo de Andrade, Partner, Earth Capital Partners

Earth Capital Partners are a responsible investor, who invests in renewable energy infrastructure development and construction, sustainable technology, sustainable agriculture and forestry.

#### Brian O'Hanlon, Head of Business Development, OPIC

OPIC is the United States government's development finance institution and have \$6bn to invest in renewable energy technology and projects across the world.

#### Victoria Mastrobuono, Vice President, Global Capital Finance

#### 10:30 - The Future of Brazil's Energy Matrix

An expert presentation followed by Q&A.

- Highlighting how Brazil can achieve a sustainable, long-term and clean energy matrix
- Integrating solar power
  - How strong will solar be?
  - How fast will solar be?
  - How competitive will solar be?
- · Re-assessing wind's place in Brazil's renewable energy matrix
  - The falling price of wind
  - Wind energy's capacity to compete with conventional power resources

Thiago Vasconcellos Barral Ferreira, Superintendent of Generation Projects, EPE

11:00 - Networking Coffee Break and Prescheduled 1-2-1 Meetings

#### 11:30 - Corporate & Industrial - Towards Zero Emissions

A panel of leading Brazilian companies discuss their energy consumption and sustainability strategies, followed by Q&A.

- Assessing how energy "prosumers" are driving Brazil's distributed generation market
- Exploring what is driving more businesses in Brazil to generate their own renewable energy
- Highlighting the challenges faced by companies in Brazil moving to renewable energy distributed generation
- Understanding the conditions required for driving C&I solar in Brazil

#### Glaucia Roveri, Energy Services Manager, General Motors

General Motors are a leading automotive group with 200,000 employees and \$166bn of group revenues.

#### Gilberto Tonim, Energy Manager, Nestlé

Nestle is one of the World's largest food companies with revenues exceeding \$90bn and over 330,000 employees.

#### Luiz Renatto Quinalha, Manufacturing & Supply Chain Director for Americas Region, Renault do Brasil

Renault is a leading global car company with annual revenues of \$50bn and 127,000 employees.

### Renato Boaventura, CEO, Global BU Fibras – Rhodia of Solvay Group

Rhodia is the synthetic fibres and polymers company of the Solvay Group, a leading global chemicals group with over \$12bn in revenues and a workforce of 27,000 employees.

Pierre-Emmanuel Moussafir, Country Manager, EREN do Brasil

# **MONDAY 23 OCTOBER**

#### 12:30 - Opportunities in Residential and C&I Solar

Brazil's leading prosumers, installers and solar equipment distributers highlight current and future opportunities in the country's residential and C&I solar market, followed by Q&A.

- · Assessing the latest regulations and guidelines for residential solar
- Reviewing tariffs for net-metering and net-billing
- Examining international solar leasing models and their applicability in Brazil

Diego Mansur, Director, Sigma Energia Solar Gabriel Guimaraes, Sales Director, SolarVolt Energia Marcelo Von Gal, Co-Owner, Ecori Energia Solar Alcione Belache Ferreira, CEO, Renovigi Energia Solar Bruno Wilmer Fontes Lima, Commercial Director, Solstício Energia

13:30 - Extended Networking Lunch and Prescheduled Meetings

#### 13:30 - VIP Solar Prosumers, DG Developers, Installers and Distributors Lunch

Invitation only - Meet Brazil's leading solar prosumers, DG Developers, installers and solar equipment distributers.

#### **BIREC Separates into Two Streams**

 Solar Distributed Generation STREAM
 Energy Storage and Grid STREAM

 14:55 - Chairperson's Opening Remarks
 STREAM

 Aurelio de Andrade de Souza, General Manager, USINAZUL
 Aurelio

#### 15:00 - Sustaining Brazil's 2016 60% Solar Distributed Generation Growth

Lessons Learnt and Success Stories: Brazil's leading solar distributed generation stakeholders reflect on lessons learnt and forecast the future of Brazil's DG market, followed by Q&A.

- Assessing in which conditions solar distributed generation projects are most commercially viable and provide the best return on investment
- Global lessons learnt combining good developer business models and favourable regulatory frameworks
- Exploring opportunities in using large solar DG portfolios in order to refinance projects – how to use project portfolios as financing collateral
- Understanding how a scalable business model will increase productivity and ROI
- Examining the needs and aims of investors in the Brazilian solar DG space

Dale A.Vander Woude, President/CEO, Helio Energias Renováveis Marcio Trannin, CEO, Enel Soluções Nelson Colaferro Jr, President, ABSOLAR

#### 15:50 - Thesan Feature Presentation

**Coralie Carrier-Clérambault**, Head of Development, **Thesan** 

THESAN

#### 15:00 - Energy Storage in Brazil

An in-depth presentation assesses the Brazilian uptake of energy storage technology, followed by Q&A.

- Reviewing storage technology innovations and their applicability in the Brazilian market
- Assessing the cost of renewable energy storage and it's feasibility in the Brazilian market landscape
- Examining new storage regulations and what their impact will be on the Brazilian uptake of energy storage

#### 15:30 - How will the commercialisation of energy storage impact Brazil's renewable energy market

A panel of key energy storage and renewable energy stakeholders discuss the future of storage in Brazil's renewable energy space, followed by Q&A.

- Effectively developing grid and transmission infrastructure to adapt to the onset of increased renewable energy supply from wind and solar
- Determining how utilities and grid operators globally are using storage to manage their services
- Uncovering the economic benefits to developers as a result of storage incorporation, including reduced intermittency and improved reliability for energy customers
- Reconciling Brazil's energy storage future with its established hydro power economy

Carlos Augusto Leite Brandão, President, ABAQUE

Gustavo Malagoli Biuatti, President, ALSOL

**Francisco da Costa Lopes,** Research Associate, **Eletrobras Cepel** 

# **MONDAY 23 OCTOBER**

#### 16:10 - JA Solar Feature Presentation

Claudio Loureiro, General Manager, JA Solar

### **JA** SOLAR

16:30 - Networking Coffee Break and Prescheduled 1-2-1 Meetings

Promote your brand and position yourself as a market leader by becoming coffee sponsor.

#### 17:00 - Solar Distributed Generation Case Study

Key players responsible for a successful distributed generation solar project in Brazil discuss the project lifecycle and overcoming challenges, followed by Q&A.

- Which key factors did they take into account when performing due diligence and resource assessment?
- How did they structure their project financing model?
- What were the main challenges during the construction stage of the project and how were they overcome?
- Structuring the project within a holistic business model
- What is the one piece of advice to give a solar developer looking to enter Brazil's DG market?

Markus Vlasits, Commercial Director, Faro Energy Marcelo Szpilman, President, AquaRio

#### 16:10 - Economics of Brazil's New Energy System

An expert presentation assesses the potential of energy storage projects in Brazil

- Pricing the new energy system: renewable energy + storage vs fossil fuels
- Determining the competitiveness of current renewable energy prices with storage against traditional energy sources
   Exploring how energy storage contributes
- to the development of renewable energy • Examining pricing trends and forecasting the
- country's energy storage future trends • Identifying the project financing avenues
- available to energy storage projects
- Assessing how energy sector economic will evolve with the growth of distributed generation's matrix share

Alessandra Amaral, Director President, Energisa Comercializadora

16:30 - Networking Coffee Break and Prescheduled 1-2-1 Meetings

17:00 - The Future of Brazilian Energy Consumers: Sufficiency, Sustainability and Efficiency in Construction

- A panel discussion explores the future of Brazil's energy conscious building, followed by Q&A..
- Driving the integration of sustainable energy and energy efficacy in new builds and renovations
- o Regulations o Incentives o BenefitsExploring advances in building integrated energy
- technologies oPV o Efficiency o Storage

YASKAWA

Sponsored by

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 Assessing recent developments in energy efficacy at a residential, commercial and industrial scale

Guilherme de Lucena Chrispim, Commercial Director, Liv Energia Eficiente

17:45 - Drinks Reception

19:15 - VIP Gala Dinner

### **BIREC 2016 WAS AN EXCELLENT OPPORTUNITY** to improve network and exchange knowledge with key persons in the renewable business industry. Looking forward to BIREC 2017



**PROMOTE YOUR BRAND** and position yourself as a market leader.

For more information please contact



DAVID SANSOM COMMERCIAL DIRECTOR T: +44 (0)20 3384 5791 E: david.sansom@greenpowerglobal.com

Eduardo Tobias Ruiz, Director, CELA

# **TUESDAY 24 OCTOBER** — INVESTMENT MANAGEMENT AND PROJECT DEVELOPMENT

#### 08:00 - Registration, Networking Coffee and Prescheduled 1-2-1 Meetings

#### 08:50 - Chairperson's Opening Remarks

Camila Ramos, Managing Director, CELA

#### 09:00 - Brazil's macroeconomic landscape

An in-depth expert presentation followed by Q&A.

- Reflecting on how Brazil's macroeconomic landscape impacts the country's renewable energy market
- · Identifying how political leadership and regulations will impact Brazil's renewable energy sector
- Reviewing future demand for renewable energy in Brazil and determining the commercial opportunity

#### Helena Chung, Research Analyst, BNEF

#### 09:20 - Industry Titans: The growing role of strategic investors

Brazil's strongest industry players discusses their strategic investments in the country.

- Exploring the evolution of strategic investment in Brazil's renewable energy landscape
- Understanding what strategic investors look for in a renewable energy investment opportunity in Brazil
- Assessing steps taken by industry leaders to mitigate country and currency risk when investing in Brazil
- Learning how strategic investors calculate project bankability

#### Moderator:

Rodrigo Sauaia, Chief Executive Officer, ABSOLAR Panellists:

Sérgio Brandão, Director of Energy in Brazil, Actis Alessandro Gregori, New Business Director, CPFL Renováveis João Greco Pinheiro, Managing Director, Alupar Investimentos Leonardo Walter, Head of Business Development, Enel Green Power

#### 10:15 - The Investor's Outlook: What leading investors look for in Brazilian renewable energy opportunities

A panel of leading investors active in Brazil discusses their investment strategies, followed by O&A.

- Understanding the necessary attributes investors seek in potential renewable energy investments
- Calculating project bankability and ensuring return on investment what do I need to know?
- Examining how investors handle the changing investment landscape

- Exploring how investors ensure flexibility and are ready to seize investment opportunities
- Identifying the processes by which leading investors conduct due diligence of potential opportunities
- Assessing how investors judge project investment viability

Eduardo Farhat, Managing Director, Darby Private Equity Natalia Svejgaard, Investment Director, Danish Climate Investment Fund, IFU Aline Oliveira, Investment Officer, Apex-Brasil

11:00 - Networking Coffee Break and Prescheduled 1-2-1 Meetings

#### 11:30 - Reviewing Brazil's most recent innovative power technologies

A panel of leading innovators review the latest advances in electricity and power technologies, followed by O&A.

- Identifying the latest technologies to support greater connectivity
   Reflecting on how information technologies will change Brazil's power trading dynamics
   Technology selection and development which technological advancements
- are best suited to the Brazilian renewable energy sector?

Alberto Cuter, General Manager Latam, Jinko Solar Oliviero Armezzani, Executive VP and Co-owner, Convert Italia

#### 12:10 - How will government reforms of Brazil's power sector impact the country's renewable energy market?

A panel of Brazil's key renewable energy stakeholders from across the sector discuss how the overhaul will affect their business, followed by O&A.

- Exploring how reforms to Brazil's tariff system will impact the renewable energy market
- Understanding the effects of a reductions in subsidies will mean for the renewable energy sector
- Highlighting how the overhaul of the power sector will impact each of the key renewable energy sub-sectors: - Solar distributed generation - Large scale solar - Wind Assessing what will the regulatory reforms mean for the distribution of
- electricity in Brazil

#### Alessandra Marinheiro, Chief Executive Officer, ContourGlobal LATAM Eduardo Serra, Chief Executive Officer, Energia Capital Claudio de Araújo Ferreira, Corporate Vice President, EchoEnergia Nadia Scharen-Guivel, Principal Clean Energy Finance Associate, Abt Associates

13:10 - Extended Networking Lunch and Prescheduled Meetings

### **BIREC Separates into Two Streams**

Wind & New Energy Systems

# **TUESDAY 24 OCTOBER**

#### Solar

#### 14:25 - Chairperson's Opening Remarks

José Henrique Falcão Zloccowick, Consultant, Facto Energy

14:30 - Utility Scale Solar: Not whether it'll happen in Brazil, but when and how

A panel of Brazil's leading utility scale solar players discuss their solar vision for Brazil, followed by Q&A.

- Re-defining best practices in utility scale project development – do we need a more methodical and slower approach?
- Reconciling government support with private sector needs
- How can Brazil's auction system drive utility scale solar?
- Understanding what needs to be done to support a transition of solar power from reserve auctions to a main power on the national energy grid
- Forming a successful business strategy as solar prices become increasingly competitive

Ricardo Barros, Country Manager Brazil, Solairedirect

Eduardo Serra, CEO, Energia Capital Pedro Vaquer Brunet, President, Solatio Energia

Pedro Schuch Mallmann, Director, Renobrax

15:15 - Driving Brazil's solar sector growth in an environment of local content rule restrictions and lack of solar infrastructure

A panel of leaders from across Brazil's solar energy value chain reflect on how to advance Brazilian solar, followed by Q&A.

- Understanding how to scale the solar supply chain in Brazil
- Predicting demand for solar equipment
   in Brazil
- · Exploring what can be done to reconcile

#### Wind & New Energy Systems

14:30 - Public-private collaborative approaches to tackle renewable deployment challenges

- An expert presentation, followed by Q&A.
- Analysing estimates for required investment in low carbon technologies and how to drive costs down in order to accelerate low carbon energy deployment
- Driving private sector and government collaboration
- Analysing Carbon Trust case studies of successful collaborative models

João Lampreia, Manager, Carbon Trust

#### 14:50 - How Artificial Intelligence Will Revolutionize Your Utility

Feature presentation followed by Q&A

- Sharing a glimpse of the future with examples of how utilities can begin adapting next generation technologies
- Using next generation technologies to drive significant improvement in revenue and reduction in operation costs
- Discussing examples of how Artificial Intelligence is augmenting current practices, making operation and maintenance professionals more efficient

**Paulo Pereira,** Global Vice President, Utilties and Industrial, **SparkCognition** 

- 15:15 Overcoming Brazilian wind infrastructure challenges to drive the industry forward
- A panel of key wind power stakeholders discuss how they navigate the Brazilian market
- Highlighting which factors must contribute to increasing wind's share of the energy matrix
- Examining current wind equipment infrastructure
- Reflecting on challenges of importing wind technology

#### the need to import equipment

Assessing how Brazil's solar manufacturing sector could become more competitive

Nelson Falcão, Country Manager Brasil, FLEX Vitor Rodrigues, Regional Business Field Manager Spain and Latin America, TÜV Rheinland

16:00 - Networking Coffee Break and Prescheduled 1-2-1 Meetings

#### 16:40 - Successfully financing solar energy projects in Brazil

A panel of key solar stakeholders discuss how to successfully structure financing models in the Brazilian landscape, followed by Q&A.

- Reviewing what commercial banks are doing to accelerate solar financing
- Exploring dedicated solar funds available from Brazil's regional development banks
- Examining how to successfully structure project finance for Brazilian solar
- Assessing the Brazilian companies taking solar finance into their own hands

Sergio Reinas, Founding Partner, Grupo Rio Alto

Pablo Otin, VP Emerging Markets, 8minutenergy Helton Chagas Mendes, Superintendent of Business, Banco do Nordeste

Enrique Galdos, Senior Manager, Nordic Power Partners

### Learning how to scale Brazil's wind market accurately

Alessandra Marinheiro, CEO, ContourGlobal LATAM Antonio A. T. de Bastos Filho, CEO, Omega Energia Renovável Robert Klein, General Manager Brazil, Voltalia

16:00 - Networking Coffee Break and Prescheduled 1-2-1 Meetings

#### 16:30 - Certificates of Renewable Energy in Brazil

An expert presentation followed by Q&A.

- Understanding the oncept of Renewable Energy Certificate
- Positioning the Renewable Energy Certificates Market in Brazil and in the world
- Reviewing how to issue and transact Renewable Energy Certificates in Brazil

#### Celina Almeida, Director, Instituto Totum

**BIREC was a great first for its participants**, industries' leaders from the wind and solar PV sectors were present, the content reflected all major issues and opportunities facing these sectors nowadays in Brazil

Kirsten Kramer, Manager, Accenture

#### AGENDA - DAY 3

### WEDNESDAY 25 OCTOBER — BIREC FINANCE SUMMIT

#### 08:30 - Registration, Networking Coffee

#### 09:00 - Chairperson's Opening Remarks

Nadia Scharen-Guivel, Principal Clean Energy Finance Associate, Abt Associates

#### 09:05 - How does IFC finance the renewable energy sector in Brazil?

- Understanding IFC's strategy for renewable energy
- Exploring IFC's financing rules in Brazil
- Reviewing IFC case studies
- Guillaume Tiret, Investment Officer, International Finance Corporation

#### 09:30 - Updates from BNDES

An expert presentation offers updates on BNDES' role in Brazil's renewable energy sector, followed by O&A.

- Understanding BNDES' strategy in Brazil's renewable energy sector as the development bank scales down activity
- Gathering essential knowledge and tools to access BNDES funding
- Assessing how BNDES financing avenues are changing
- Reviewing current BNDES regulations what do I need to know?

#### Ligia Barros das Chagas, Head of the Alternative Energy Sources Department, BNDES

#### 10:00 - Tackling Brazil's high cost of capital

A panel of financiers and renewable energy developers explore how to tackle Brazil's high cost of capital, followed by Q&A.

- Examining banking services available that offer cheap capital for projects' early years
- Assessing how development and commercial banks can share project risk
- Highlighting how the re/insurance industry can share project risk
- Reviewing the successes and challenges experience by developers who have taken loans in US\$ and/or Euros from offshore banks

#### **Thatyanne Gasparotto.** Program and Relationship Manager for Brazil. **Climate Bonds** Initiative

Benjamin Guerini, Head - South America, Proparco Wylie Levone, Partner, Hogan Lovells Sebabrata Sarkar, Weather Resource Risk Expert, Swiss Re

10:45 - Networking Coffee Break

#### 11:15 - Driving the clean energy economy: What roles do commercial banks play?

A panel of commercial banks assesses the most successful renewable energy financing models, followed by Q&A.

- Exploring the role played by international financiers in Brazil's financing landscape as BNDES decreases its role
- Instigating the move from corporate banking to more holistic project finance capable of early stage funding
- Examining renewable energy specific funds from commercial banks and how to access them

Silvana Bianco, Head of Energy South America, ABN AMRO Leandro Mello de Angeles, Vice President, Project Finance, Itaú BBA Thiago Sendelbach, Project Finance Director, BNP Paribas Edson Ogawa, Head of Power Sector Project Finance, Santander Angela Martins, Chief Representative and Regional Manager for Latin America, National Bank of Abu Dhabi

#### 12:10 - The growing role of non-BNDES financing bodies

As the national development bank reduces its involvement in the renewable energy sector. A panel of development banks and multilaterals discuss how to drive Brazil's renewable energy market, followed by Q&A.

- Assessing the space left for other development banks left by BNDES' retraction of renewable energy financing
- Examining the future of long term financing in Brazil's new project finance landscape
- Highlighting the potential role of export-credit agencies in Brazil's renewable energy space
- Exploring re/insurance solutions that can help Brazil's renewable energy projects become more financially attractive / bankable

Nicola Moreira Miccione, Director of Control and Risk, Banco do Nordeste Margarita Garcia de Paredes, Lead Investment Officer, Inter-American Investment Corporation

Antonio Barbalho, Energy Practice Manager Latin America & the Caribbean, The World Bank

Sebabrata Sarkar, Weather Resource Risk Expert, Swiss Re

#### 13:00 - Extended Networking Lunch

#### 14:30 - The latest in Brazil's wind mergers & acquisitions

A panel of experts and Brazil's leading wind players discuss opportunities in the country's current wind M&A market, followed by Q&A.

- Tracking recent merger & acquisition trends in the Brazilian wind market
- Building a successful M&A business strategy
- Tackling key issues in M&A transactions in the Brazilian renewable energy space

#### Carlos Gros, SVP M&A, Brookfield Julien Dias, Founder, Julien Dias Finance & Renewable Energy

# WEDNESDAY 25 OCTOBER

#### 15:10 - Accessing BNDES financing for large scale wind developments: A Rio Energy Case Study

The 223MW Serra da Babilônia wind farm project in Bahia developed by Rio Energy will consist of eight wind sites and 95 turbines. Under the financing agreement BNDES will provide BRL\$848 million (\$272 million). The strategic leaders of the project take us on the path they followed to secure BNDES financing.

The project stakeholders walk through the journey to accessing BNDES finance, followed by Q&A.

- Which key factors did they take into account when performing due diligence and resource assessment?
- How did they structure their project financing model and BNDES application?
- What was the backup plan if the project failed to access BNDES funding?
  What is the one piece of advice you would give to a project developer
- What is the one piece of advice you would give to a project developer applying for BNDES funding?

#### Victor Muñoz, Managing Director, Denham Capital Marcos Meireles, Chief Executive Officer, Rio Energy

#### 15:35 - The latest in Brazil's solar mergers & acquisitions

Investment experts in Brazil discuss opportunities in the country's current solar M&A market, followed by Q&A.

- Mapping of utility scale M&A transactions in the sector
- Examining why projects with PPA suddenly became so attractive
- Assessing M&A strategies and trends for the future
- Reviewing case studies of specific M&A transactions

#### Eduardo Tobias Ruiz, Director, CELA

16:00 Networking Coffee Break

#### 16:30 Meet Your Project Finance Partners Roundtables & Wrap-up Drinks

Join one of our roundtable hosts as they lead a group discussion, digging deeper into project financing and investment challenges in each sub-market.

<b>Table 1:</b> Utility Scale Solar	<b>Table 2:</b> Distributed Generation Solar	<b>Table 3:</b> Large Scale Wind	<b>Table 4:</b> Energy Storage Project
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### **CLOSE OF BIREC 2017**

BIREC WAS ONE OF THE BEST EVENTS THAT I EVER ATTENDED The quality of all speakers was high and the seniority and quality networking of the participants was fundamental for the success of the event.

Filippo Meucci, CEO, Cellini do Brasil



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# BENEFITS OF ATTENDING BIREC

**UNDERSTAND** how **Brazil's macroeconomics** will impact investment opportunities

ASSESS the role of commercial banks in Brazil's renewable energy landscape and how they can drive the sector

**RECEIVE UPDATES** on the **renewable energy programs** of leading development banks



EXPLORE Brazil's booming distributed generation solar market **EXPLORE the best financing models** for your renewable energy projects in Brazil



**EXAMINE ROLES** and business strategies of **different investor types** including:

- Venture capital
- Private equity
- Strategic investors
- Investment banks

**FORECAST future renewable energy demand** in Brazil and scale the market to build an effective business plan



Reflect on THE FUTURE OF BRAZIL'S utility scale solar, solar distributed generation, wind and energy storage markets, and build a successful business strategy

**DETERMINE** the **business opportunities** in various technologies and project types

Be the first to **LEARN ABOUT** regulatory changes and renewable energy auction updates

LEARN HOW TO MITIGATE key renewable energy investment risks in Brazil

# THE BIREC 2017 NETWORKING ARENA



# LEVERAGE YOUR BRAND IN BRAZIL

### WHAT SORT OF EXPOSURE CAN YOU EXPECT FROM BIREC?

With BIREC, it's not only at the event itself where your brand will be seen. Whether it's from the brochure or our dedicated emails, the website or association and media partners, your brand will constantly be at the front of everything we do. The sooner you get involved, the more you'll be noticed...



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TALK TO US about how we can help GROW YOUR BUSINESS IN BRAZIL



DAVID SANSOM COMMERCIAL DIRECTOR T: +44 (0)20 3384 5791 E: david.sansom@greenpowerglobal.com **95%** OF ATTENDEES WERE ABLE TO MEET THE COMPANIES THEY WANTED AT BIREC

**92%** OF ATTENDEES RATED THE NETWORKING OPPORTUNITIES AS 'VERY GOOD'

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Solar & Wind developers



ENERGY STORAGE DEVELOPERS

10% BANKS







GOVERNMENTS



MANUFACTURERS



Consultants, Advisers, Legal Experts, Insurers and Offtakers

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BIREC 2016 WAS A STRONG, COMPACT AND VALUABLE EVENT, where all the major players in Brazil were gathered together to discuss focused business in the country. A luxury venue for 4 days of intense networking.

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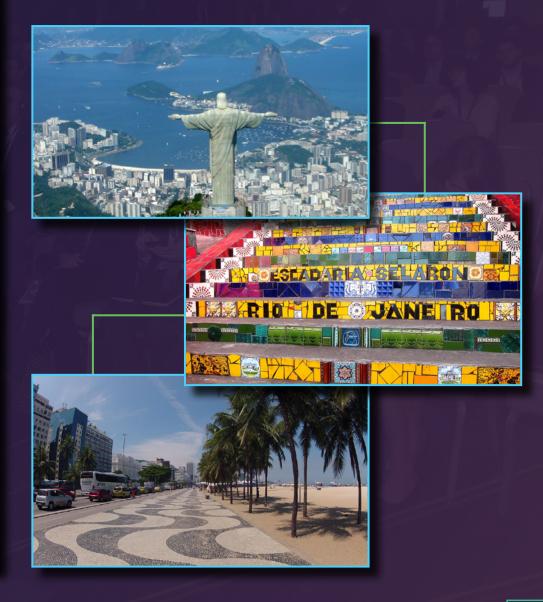
A preferential rate is available for all conference attendees during 21-28 October

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Follow this link to benefit from BIREC attendee rates www.starwoodmeeting.com/Book/birec2017

These rates are available for a limited time only so we encourage you to book your accommodation as soon as possible.

### OUR RECOMMENDATIONS



## MEET THE BIREC TEAM



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# **OUR LATAM CLEAN ENERGY TRANSITION EVENTS** FOR 2017



For your special **Market Access Pass** and for more information on how to attend multiple events, contact **David Sansom - david.sansom@greenpowerglobal.com**  SOLAR - WIND - GRID - STORAGE - ELECTRIC VEHICLES Utility Scale Projects, Commercial & Industrial Energy, Residential

### JUST SOME OF OUR 3000+ HAPPY CLIENTS FROM 2016:

"A very good show relative to the number of conversations we've had about real projects and real opportunities" J.A., Baywa R.E.

"2016 BIREC offered very strong presentations, panels and important networking with key players within wind, solar power and project finance. I highly recommend professionals within these sectors to participate"

L. S. H., Ekf

"We get an incredible amount of exposure from this event; we would recommend it to any company" D.C., Canadian Solar

"We consider it essential to take part in MIREC: For us, it is a long term investment in our brand."

J.A., JA Solar

"Very good event. With high quality panelists and sponsors, CIREC is essential to keep updated in this industry in Chile" F.F., Dax Energy



### SEIZING THE OPPORTUNITY IN BRAZIL'S HIGH-REWARD RENEWABLE ENERGY SECTOR

BIREC IS BRAZIL'S MOST RELEVANT RENEWABLE ENERGY CONFERENCE that focuses on

finance, policy and regulation and project deployment issues, addressing the Brazilian solar PV and wind segments. It brings together the main decision makers in renewable energy in the country, from investors, project developers, equipment manufacturers and **Bruno Wilmer Fontes** financiers

Solstício Energia

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