

**INDIGENOUS FIRST NATION SOUTH AFRICA & COCHOQAU KHOI-KHOI**



**SALDANHA BAY**

**PRESENTS**



**AFRICA TRILLION DOLLAR  
INDIGENOUS ENERGY SYMPOSIUM**

**2nd - 4th November 2022 at 08h30**

**White-City Multi-Purpose Centre, Saldanha Bay Western Cape**



**EAGLE PRIDE POWER PTY LTD**

**INVITES YOU TO THIS TABLE DISCUSSION**

**" Turning a trillion-dollar energy  
problem into a trillion-dollar economic  
solution "**

**BROCHURE AND PROGRAMME**

**Theme: South Africa's Energy Crisis**

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**Below follows statements from the CEO of Eskom Andre De Ruyter, The President of South-Africa, His Excellency, Cyril Ramaphosa and from the Integrated Resource Plan of South-Africa.**

These statements clearly show South-Africa's lack of energy generation is disastrous to the South-African economy and that load shedding is implemented to prevent a 'collapse of the electricity grid' that will lead to a total black out with catastrophic economic and social consequences.

De Ruyter said that without load shedding 'We would have the system equivalent to cardiac arrest. We have 50Hz going to zero and then to restart that system will take a period of between two to three weeks which clearly is a catastrophic event that we want to avoid at all costs. Therefore the implementation of load shedding is an effort to prevent this catastrophic blackout. "So it is extremely unfortunate but it is the prudent step that our system operator takes and in this instance we have had to take this decision to implement Stage 2 load shedding." February 2022 '

South-Africa has installed capacity to produce approximately 46 000MW of electricity and at peak times we use about 32000 MW of electricity. However only 60% of this installed capacity is available at any given time due to some units going through planned maintenance and others having unplanned outages. Many of our power stations were built. The average age of Eskom's power stations is 35 years. "Eskom has to implement load shedding to prevent the electricity grid from collapsing and to ensure that we never experience a complete black out." (President Cyril Ramaphosa)

#### **EXTRACT FROM IRP 2019, The South-African Infrastructure Resource Plan**

Due to the decommissioning of approximately 24 100 MW of coal power plants in the period between 2030 and 2050 attention must be given to the path adopted to give effect to the energy mix and the preparation work necessary to execute the retirement and replacement of these plants. **About 5400MW of electricity from coal generation by Eskom will be decommissioned by 2022, increasing to 10 500MW by 2030 and 35 000 MW by 2050**

#### **Key facts regarding the South-African and Southern African electricity crisis:**

**1) How big is the South-African energy crisis?** Has the total of 18 600 MW coal power stations that are reaching end of life by 2035 already reached end of life? The 34 000 MW of Eskom power stations reaching end of life by 2050. The immediate energy needs of South-Africa of approximately 53 million MW/hrs.

**2)The cost of South-African energy bankruptcy:** Load shedding and thus not having power available cost South-Africa at least R100kw/hr. Stage 4 -Stage 6 load shedding cost approximately R10 billion- R14 billion a day. Loadshedding costs South-Africa about R500 billion a year. All credit downgrades between 2011 and 2015 were because of energy insecurity. Extremely low GDP growth. The expected GDP growth was 4.5% with 2.1% realized. The GDP growth between 2015 and 2020 was less than 1%.



**3)The trillion dollar Africa energy investment solution needed:** 600 million people in Africa are without electricity. 4.5 billion MW/hr power per annum needed in Africa. A strategy is needed to turn this trillion dollar problem into a trillion dollar investment solution. According to the International Energy Agency \$120 billion is invested in energy in Africa every year.

**Ivan Jones Founder of the Indigenous Africa Trillion Dollar Investment Energy Symposium.**

Eagle Pride, The Cochoqau Family Tribe Saldanha Bay are excited and proud to be the founders and host of the inaugural **Indigenous Africa Trillion Dollar Investment Energy Symposium** in Saldanha Bay, South-Africa to discuss the depth of South-Africa and Southern-African Energy crisis and the investment and technological solutions.

As a serial energy and climate entrepreneur and energy industry insider Ivan Jones and Eagle Pride Power is excited to bring together global entrepreneurs who will seriously engage in the role they can play to fast track the roll out of renewable energy projects to solve the South-African and African Energy challenge. Having the prestigious **WORLD ECONOMIC FORUM FOR ASIA-AFRICA, ( WeFaa )** on board as a global partner is a major development to accelerate the solution to the Southern-African energy crisis.

Having coined the phrase ‘ South-Africa is an energy bankrupt country’ Ivan Jones and Eagle Pride Power hope to lead the country out of the energy bankruptcy into ‘energy wealth’ that would benefit generations of South-Africans and could bring economic prosperity for at least 1000 years.

Eagle Pride and the global entrepreneurs that put together the 100 Gigawatt energy plan for Southern-Africa are looking forward to engaging international role players and investors, members of World Economic Forum for Asia-Africa, and unveil the role out of this plan at the **Indigenous Africa Trillion Dollar Energy Investment Symposium.**

## Some information on speakers and companies



- 1) **Rashaan Arscott:** Former Advisor to South African Department of Mineral Resources and Energy Independent Power Producers Procurement Programme ( REIPPP ); Acted as Technical/ Transaction Advisor to the Programme. Undertake gas utilization master plan and strategy to give effect to the Minister of Energy's determination. The role included streamlining bidding processes to reduce cost of bidders to participate in the programme. Multiple Projects as Research Strategy Manager/Chief Advisor for Eskom Holdings SOC Ltd. Former Management of technology research in areas of integrated distributed energy resources, renewable energy and energy storage. Senior Advisor and Chief Technical Officer of Eagle Pride Power past 10 years.
- 2) **Jacques Du Plessis:** Chief Operating Officer NDE2030 Consulting Engineering. NDE Team has delivered major renewable energy, in particular solar projects the past 15 years in South-Africa. Jacques Du Plessis has more than 35 years experience in Electrical Project delivery. Technical Advisor to Eagle Pride Power.
- 3) **Ivan Jones:** CEO of Eagle Pride Power. Ivan Jones is a serial energy entrepreneur and a developer of energy projects for more than 21 years. Strategic advisor for international energy companies operating in South-Africa for more than 25 years. Strategic Partner to British company Shire Oak International. His focus the past 27 years is on the industrialisation of Saldanha Bay and on attracting foreign direct investment into Saldanha Bay and Prieska in the Northern Cape.
- 4) **Indian Energy:** 100% Native Indigenous American Indian-owned Based in San Diego, California and developing large scale microgrids with energy storage projects. Providing cyber secure energy security solutions to United States Governmental Agencies and energy sovereignty solutions to indigenous peoples worldwide. The company has 4 Gigawatt of PV solar and 6GW/hr of energy storage under development.
- 5) **Alan Cadreau:** CEO Indian Energy, California
- 6) **Mike Firenze:** Chief Technical Officer and Senior Advisor to Indian Energy. Mike developed and installed one of the first commercial mechanical energy storage projects in the United States. Focussed on developing long duration energy storage and microgrid projects. Also Senior Advisor to Eagle Pride Power on energy storage for the past 10 years.
- 7) **Veritek Materials LLC:** Mass green Graphene producer. Graphene is a wonder material with numerous applications from batteries to construction to ballistics. Exclusive global patent and licensing right to make green graphene. Producing more than 15 tons of green graphene per day. Graphene is more flexible than rubber, 200X stronger than steel and lighter than paper. Graphene is the super material of the future. Graphene has huge potential for improving the sustainability of many different things. Graphene is the super material of the future. Graphene can reduce the carbon footprint of virtually every industry including; electronics, building materials, asphalt, autos, airplanes and revolutionize the energy sector.
- 8) **Greg Leman:** PhD in Chemical Engineering. Served as Clinical Professor and Founding Director of the Launch Business Accelerator at Baylor University in Texas where he led the development of the Accelerated Commercialisation Programme using Lean Startup. Dr. Leman is a Black Belt in the Innovation Engineering System Research and Innovation Collaborative. CEO of Veritek Materials LLC.



- 9) **John Mtsweni:** Chairman Eagle Pride Group. Mining Executive for more than 30 years.
- 10) **Anthony Langa:** Senior Attorney in Mining for more than 30 years. COO of Eagle Pride Group.
- 11) **Chief Atmore Rodgers:** Senior Chief of Cochoqau Khoi-Khoi tribe in Saldanha Bay and Greater West Coast with a tribal radius of more than 300km.
- 12) **Anthony Phillip Williams:** CEO Indigenous First Nation South-Africa Advocacy( Ifnasa
- 13) **Emeritus Professor JJ Williams:** PhD from Illinois University in USA. Socio and economic development specialist. Have more than 260 articles published and under top 20% most publicized academics on earth.
- 14) **Dr. Mary Draden:** Dr. Draden is one of the Founders of Higher Education Innovation in the USA. She and her colleagues Dr. Jay Box and Dr. Joanna Kile has done work in response to a workforce shortage for the chemical and petroleum industry in the Gulf States. They created a whole certification programme for workers in this field. They specialize in the USA on a range of approaches to rapidly changing skills through Community and Technical Colleges. They are part of a Global Think Tank HEI that is formed to address skills shortages more rigorously and systematically across the spectrum of needed skills. South-Africa is lacking in artisan and technology skills and Dr. Draden and colleagues are partnering with Eagle Pride Power to address this. [www.heitoday.org](http://www.heitoday.org)
- 15) **Mark Shorrock:** CEO and Chairman Shire Oak International. Shire Oak International has more than 2000 MW renewable installed and is one of the pioneering United Kingdom renewable energy companies. [www.shireoakinternational.com](http://www.shireoakinternational.com)
- 16) **Marlene Marimbe:** Development Director for Africa, Shire Oak International.
- 17) **Tapiwa Mashenjere:** Deputy Global President, World Economic Forum Asia-Africa
- 18) **Shantanu Ghosh:** Advisor to Royal Family of Bahrain. Economic Advisor of WeFaa
- 19) **Professor Joseph Smith:** currently holds the Laufer Endowed Energy Chair in the Biological and Chemical Engineering department at Missouri University of Science and Technology (MS&T). His research programme is focused on developing and evaluating novel Hybrid Energy Systems to improve energy security and enhance rural economic development. Prof. Smith also conducts research on reducing the environmental impact of using unconventional hydrocarbon resources. Advanced Hybrid Energy Systems that enhance Energy Security and expand rural economies Developing novel combustion technology for processing unconventional hydrocarbons including oil shale and tar sands Biomass gasification, Biopower generation and Biofuels production.



# PROGRAMME

## DAY 1: 2 November 2022

ITEM	TIME SLOT	TOPIC	Speakers
1	07:30 - 08:30	Registration and Tea	Admin
2	08:30 - 08:45	Welcome	Chief Atmore Rodgers
		Introduction of Keynote speaker	John Mtsweni
3	08:45 - 09:45	Opening address	Keynote speaker RSA Government TBC representation
5	09:45-10:45	Southern Africa's energy bankruptcy: Extent of the problem Cost to the economy	Ivan Jones CEO Eagle Pride Power
	10:45-11:00	Comfort break	
6	11:00 – 11:30	Q &A	Panel
7	11:30-12h30	Southern African power grid: Challenges and success stories	Rashaan Arscott
	12h00 -13h00	Q &A	Panel Rashaan and Jacques du Plessis
	13h00 – 14h00	Lunch	
8	14:15– 15:15	Problem of wind and solar energy intermittency – building baseload capacity.	Mike Firenze- Indian Energy California
9	15:15-16:15	Skills Gap	EWSETA TBC
10	18:30 – 20:00	Dinner	





## Day 2: 3 November 2022

ITEM	TIME SLOT	TOPIC	NOTES
1	09:00 -09h45	Opening day 2 setting the tone And Comfort to sum up the previous day and introduce the WEF president	John Mtsweni or Comfort Sekwaila- WeFaa
2	09:45 – 10:00	World Economic Forum For Asia-Africa Greetings	President of the WeFaa or Shantanu Gosh
3	10:00-10:45	4.5 billion Gigawatt/hr opportunity. The roll out of 100 gigawatts:	Mark Shorrocks/ Marlene Marimbe-Shire Oak International
	10:45-11:00	Comfort break	
4	11:00-11:45	Role of WEF in trillion-dollar solution?	WeFaa – Tapiwa Mashenjere Deputy Global President
	11:45-12:35	Q&A	WeFaa Panel and Ivan as Moderator
5	12:35 -13:45	Lunch	
6	13:45 – 14:45	Skills solution	Dr. Mary Darden USA EWSETA TBC
7	14:45 - 15:45	Indigenous Khoe-Khoe and San First Nation People: taking up a seat at the Energy Economic Table (SEET) commissioning indigenous lands for energy projects development	Anthony Phillip Williams; Indigenous First Nation Advocacy South Africa (ifnasa) <a href="http://www.ifnasa.co.za/">http://www.ifnasa.co.za/</a>
8	15:45– 16:45	Entrepreneurship and opportunities for indigenous in distribution power	Alan Cadreau Indian Energy CEO <a href="http://www.india.energy.com/">http://www.india.energy.com/</a>
9	16:45 – 17:30	Q&A	Barney Andrews Harambee Social Justice
10	18:30 – 20:00	Gala Dinner	



### Day 3: 4 November 2022

ITEM	TIME SLOT	TOPIC	NOTES
1	09:00-09:30	Opening of day 3	John Mtsweni Shantanu Ghosh-WeFaa
2	09:30 – 10:30	Keynote address Honourable Minister Ms. Barbara Creecy	Minister- Department of Forestry Fishing and Environmental Affairs.
3	10:30 -11:30	The hydrogen solution	Guilherme Lopes
	11:30-11:45	Comfort break	
4	11:45-13:30	Hemp – Biomass – Gasification and Graphene: The future of energy storage	Dr. Greg Leman and Prof Smith
5	13:30-14:30	Lunch	
6	14:30 – 16:00	Working groups	Ivan Jones
7	16:00-16:45	Feedback from working groups and action plan	Group leaders
8	16:45 – 17:00	Vote of thanks and closing	Anthony Langa
		Dinner	

" SOUTH AFRICA'S  
ENERGY CRISIS "



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INDIGENOUS AFRICA

TRILLION - DOLLAR ENERGY INVESTMENT

SYMPOSIUM



# SOUTH AFRICA'S ENERGY CRISIS

TURNING A TRILLION-DOLLAR ENERGY PROBLEM  
INTO A TRILLION-DOLLAR ECONOMIC SOLUTION

**EAGLE PRIDE POWER PTY LTD**



## SPONSORSHIP

### BECOMING A SPONSOR

Eagle Pride Power Pty td, in collaboration with the Indigenous First Nation South Africa & Cochoqau Khoi-Khoi Saldanha Bay, will bring together energy experts, investors, government and business to seek solutions for South Africa's energy crisis at a symposium in Saldanha Bay from 2 – 4 November 2022.

Funds raised through corporate sponsorship will be used to cover necessary overheads to ensure a successful symposium.

Complete the form on the website

([www.energyinvestmentsymposium.com/sponsorship](http://www.energyinvestmentsymposium.com/sponsorship)) if you are interested in becoming a corporate sponsor. Sponsors must make their marketing material available for inclusion on our website, and other platforms. We will include sponsors names in our media campaigns. Sponsors may be invited to the team which will scope the way forward.



# BOOKING INFORMATION

**White-City Multi-Purpose Centre,  
Saldanha Bay Western Cape  
South Africa**

**2nd-4th November 2022  
08h30**

**RSVP: CEO Mr. I.C. Jones  
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