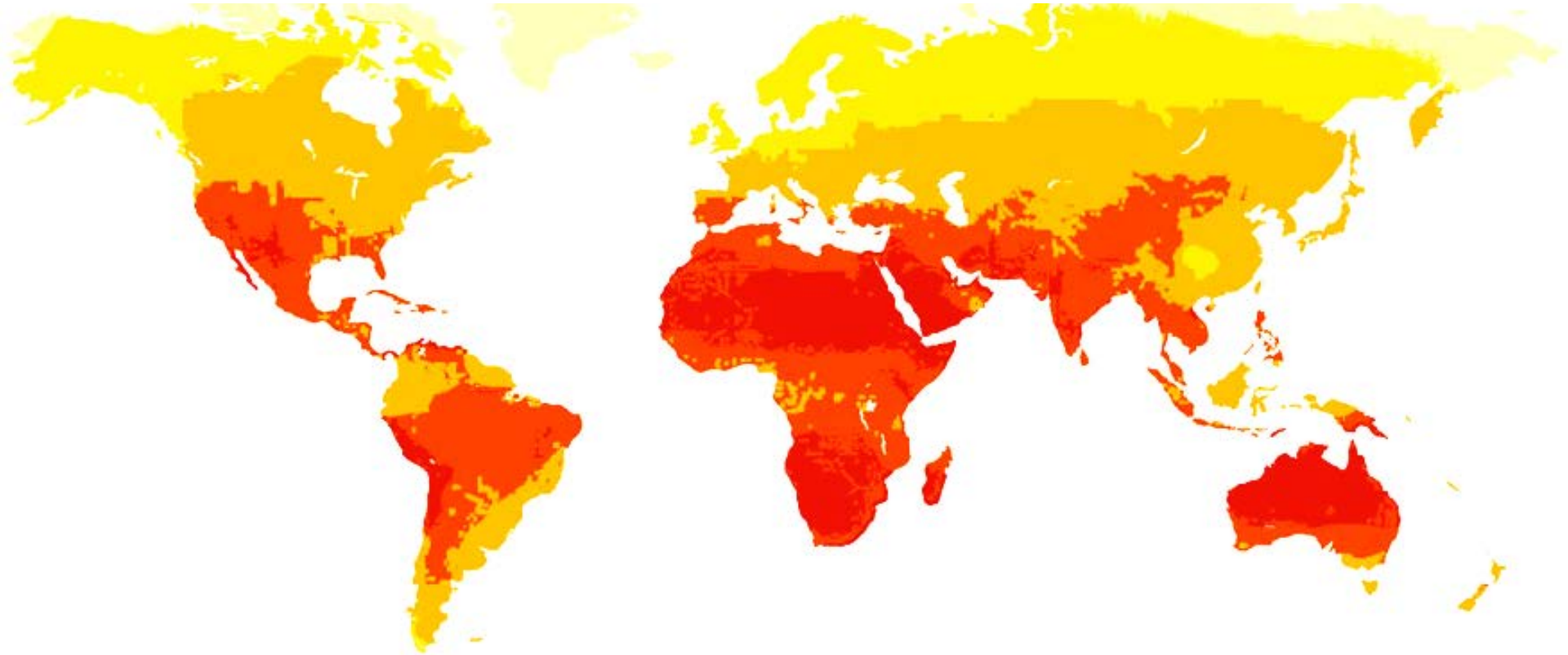
APR ENERGY
Powering your progress

Sustainability vs. Reliability

The Need for a Balanced Approach to Power Generation

Association of Power Utilities of Africa
July 12-15, 2017

Partner



Of the 10 countries with the most sunshine, seven are in Africa …

With Africa's vast river network, continued development of hydropower …

Despite the benefits of renewables,

sustainable power

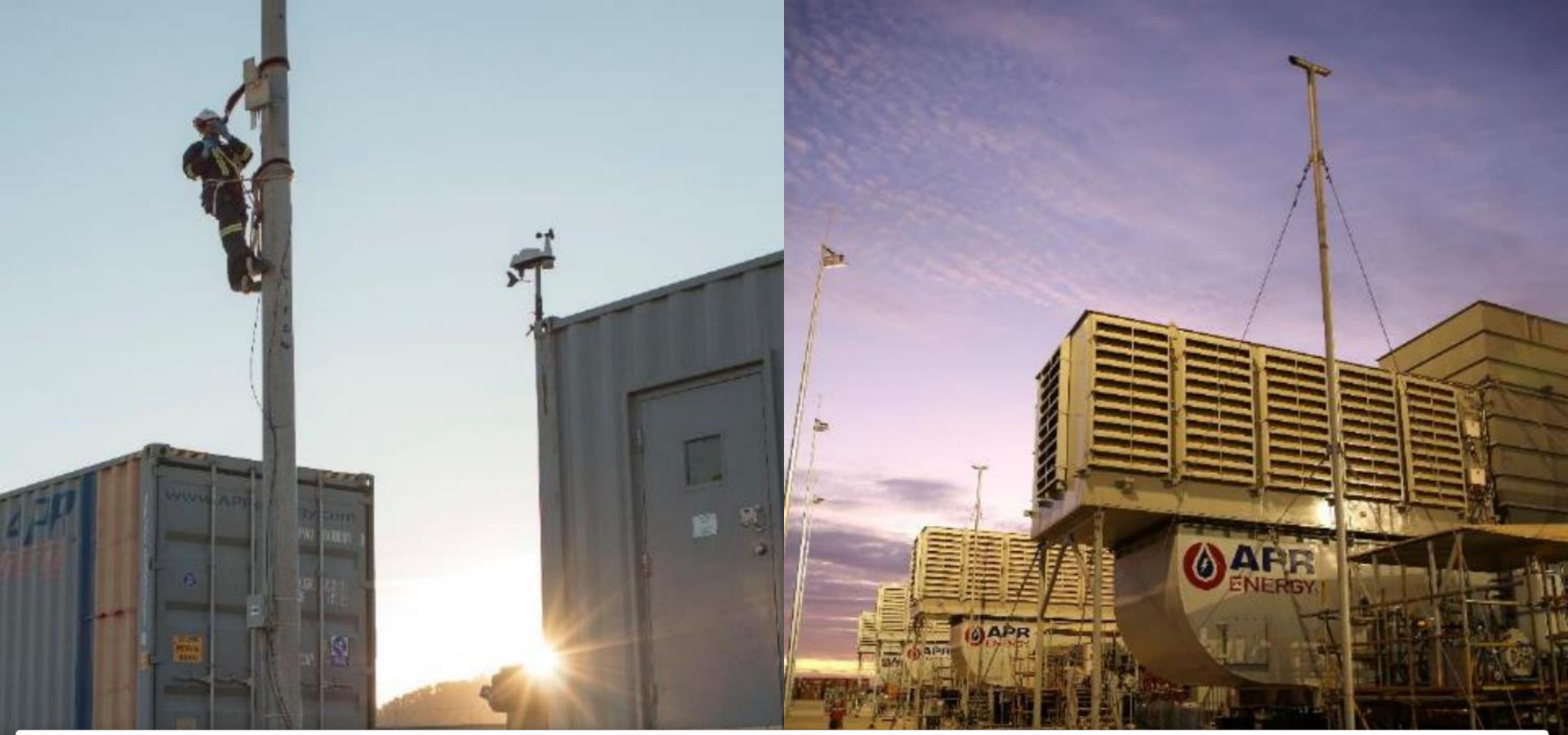
is not necessarily

reliable power.

Sustainable power needs

a reliable partner:

mobile fast-track power.

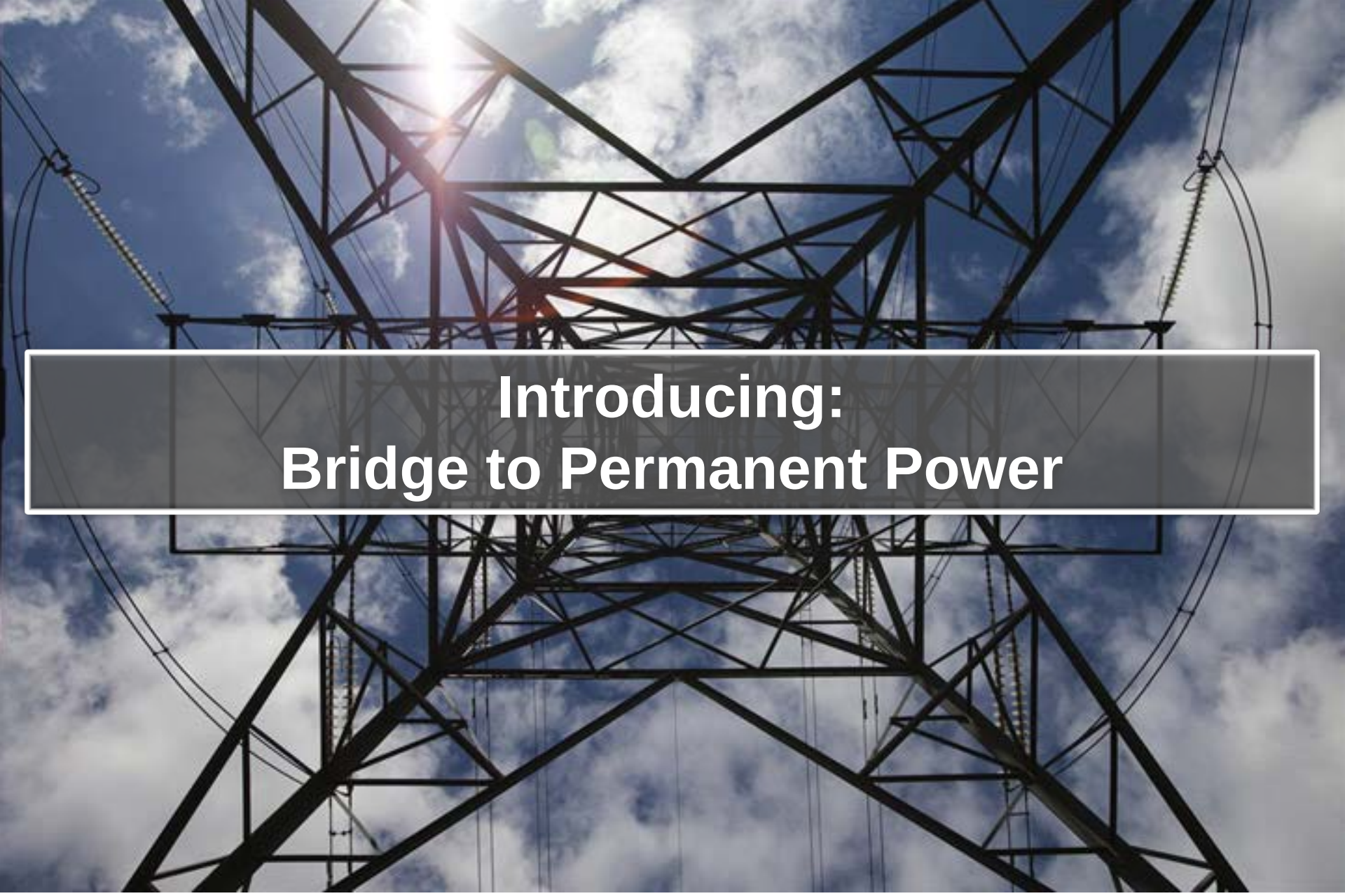


Gensets and turbines can inject large blocks of power to stabilize hydroelectric grids.

But even with
mobile fast-track power
to support

intermittent renewables …

… Africa needs a balanced approach to power generation for sustainable growth.



Introducing:
Bridge to Permanent Power

Mobile power is fast and cost-effective

but it's also

Temporary.

Now there's a cost-effective power solution that's

Fast and Permanent.

Bridge to Permanent Power

Customers no longer need to wait for years for installed power

Temporary Bridging Power in as fast as 60-90 days

Permanent Combined Cycle in 1-3 years

Project Developer
APR Energy

Equipment Supplier
GE Fast Power

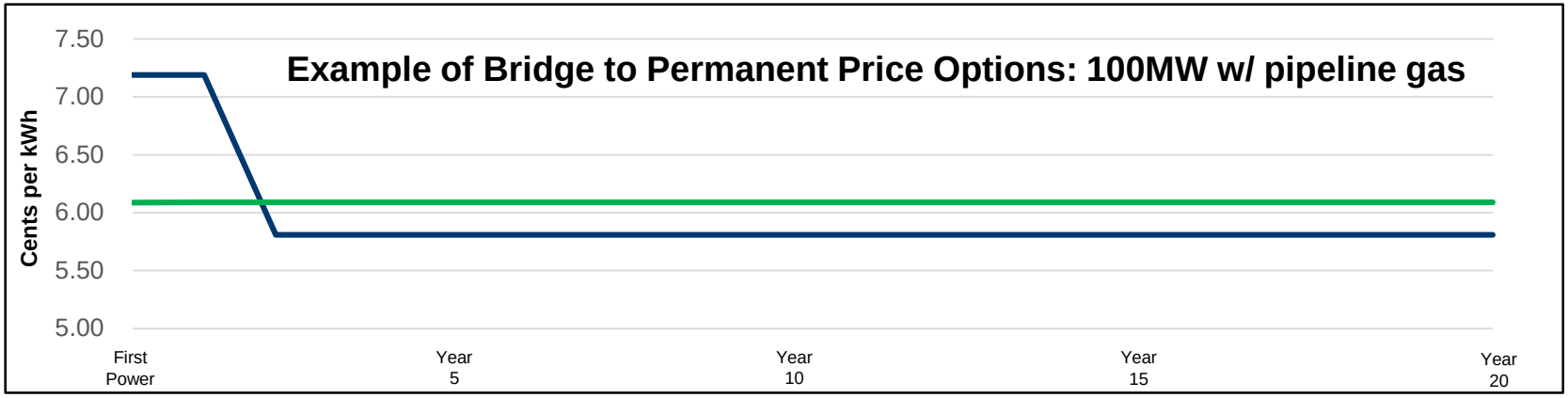
Project EPC
APR Energy / GE

How Bridge to Permanent Works

A seamless solution at a tiered or levelized cost for power

- Implementation:
  - **Bridging Power**: 2-3 months installation followed by 1-3 years of operation
  - **Permanent Power**: 1-3 years construction followed by 10-20 year PPA

- Pricing
  - **Tiered** – Customer pays same price for generation throughout the PPA and gains substantial fuel savings when permanent plant goes commercial
  - **Levelized** – Customer pays the same cost per kWh (generation and fuel) throughout the PPA regardless of technology



Bridge to Permanent Power with LNG and LPG:

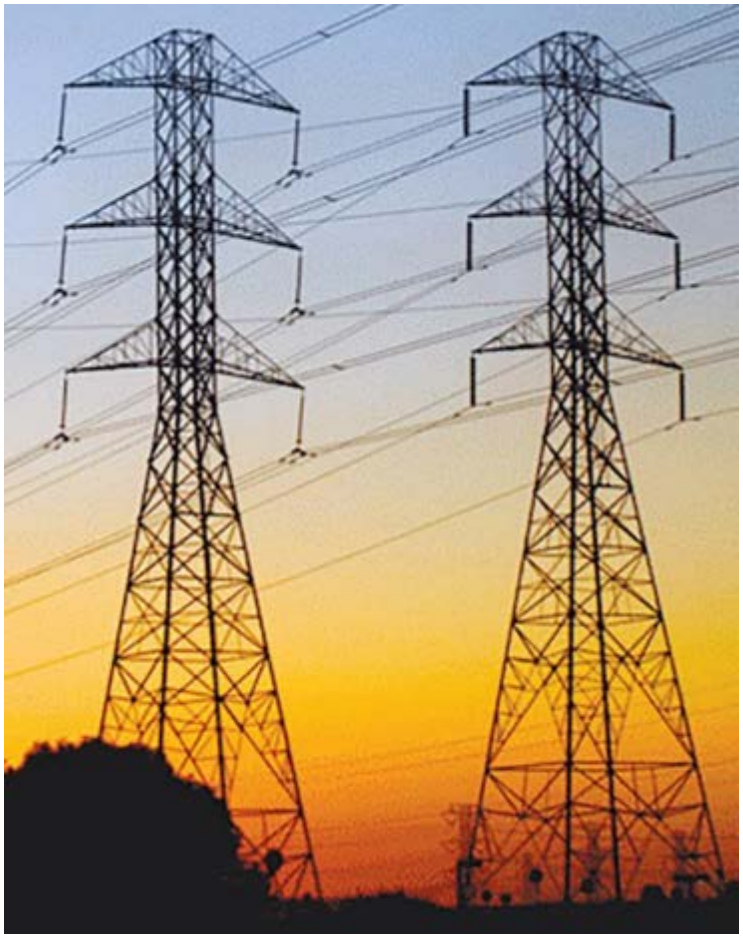
Advantages

- ✓ Lower-cost fuels compared with diesel and HFO
- ✓ Increasing fuel availability in Africa
- ✓ Lower emissions vs. coal, diesel and HFO

Advantages of Bridge to Permanent

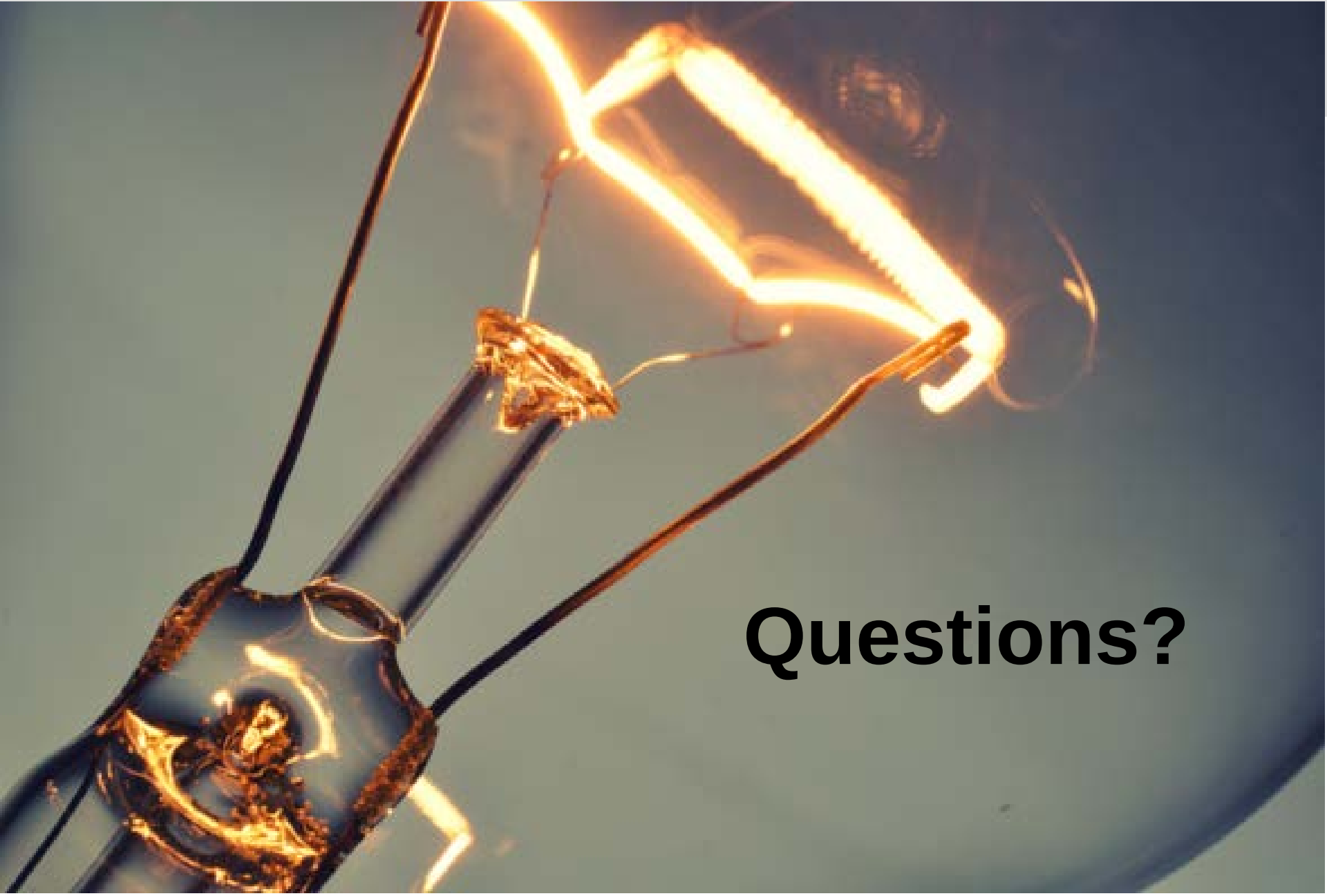
The power to grow Africa's economy – now and for years to come

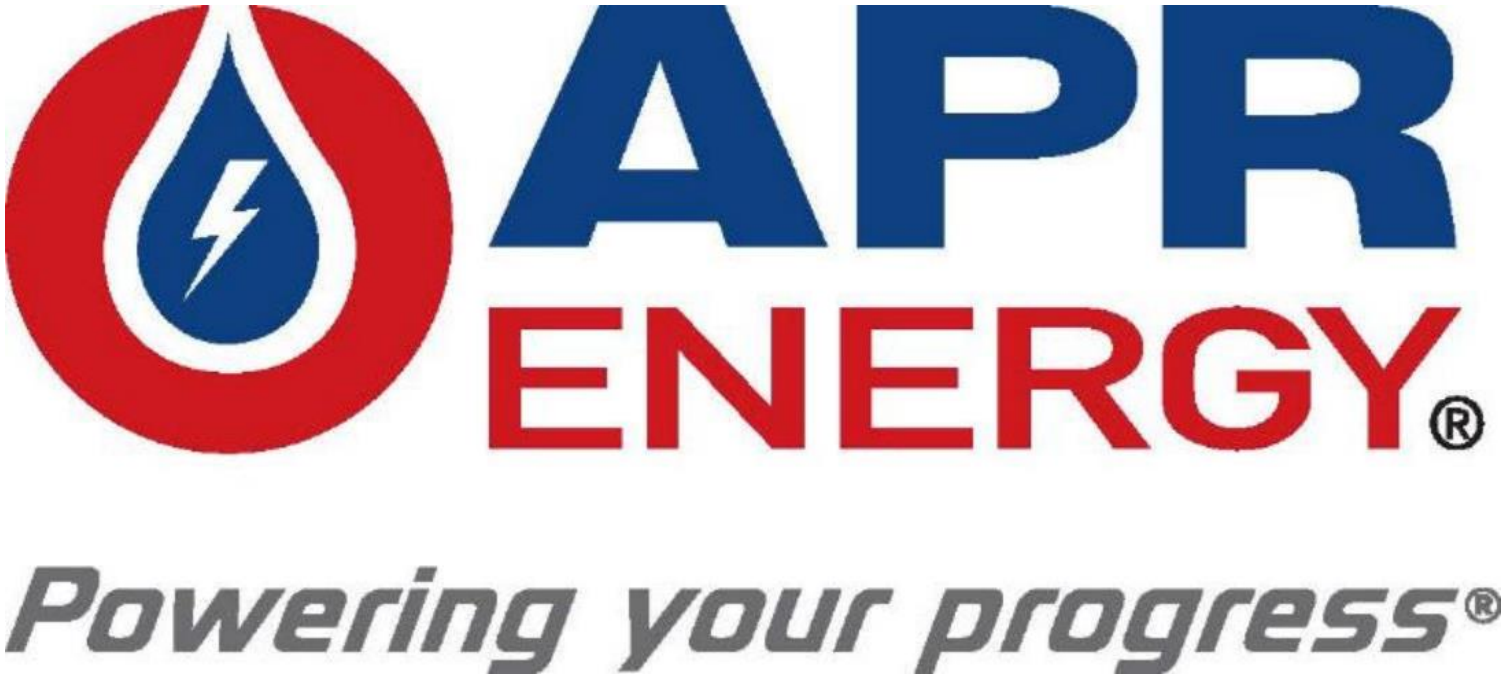
- Provides electricity now with a parallel path to a highly efficient and cost-effective permanent power solution
- Ideal balance between speed and price
- No up-front payment by customer
- Flexibility of turbines to accommodate a range of fuels



With a cost-effective solution that offers fast and permanent power,

why wait?




APR
ENERGY®
Powering your progress®