Full life cycle –

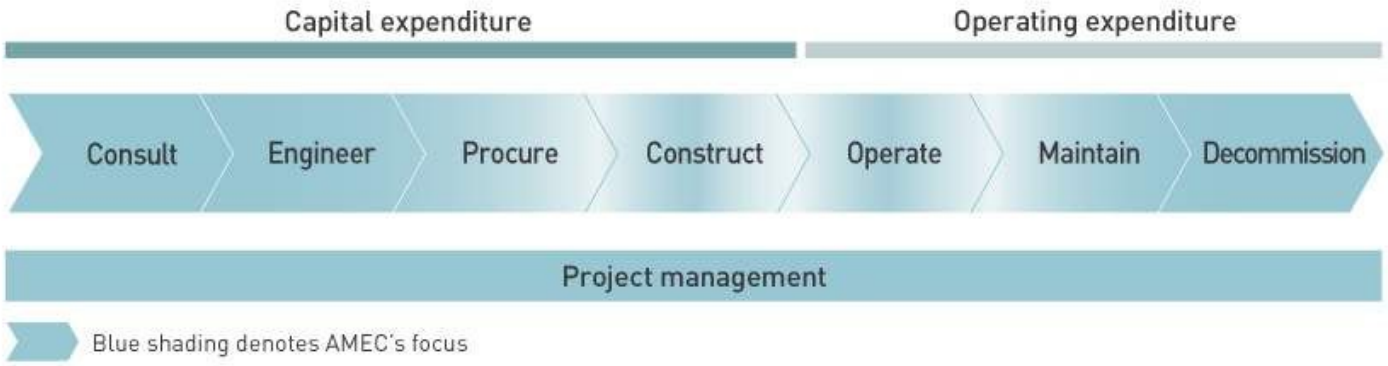
The only reliable framework for impact assessment

Samir Brikho, Chief Executive

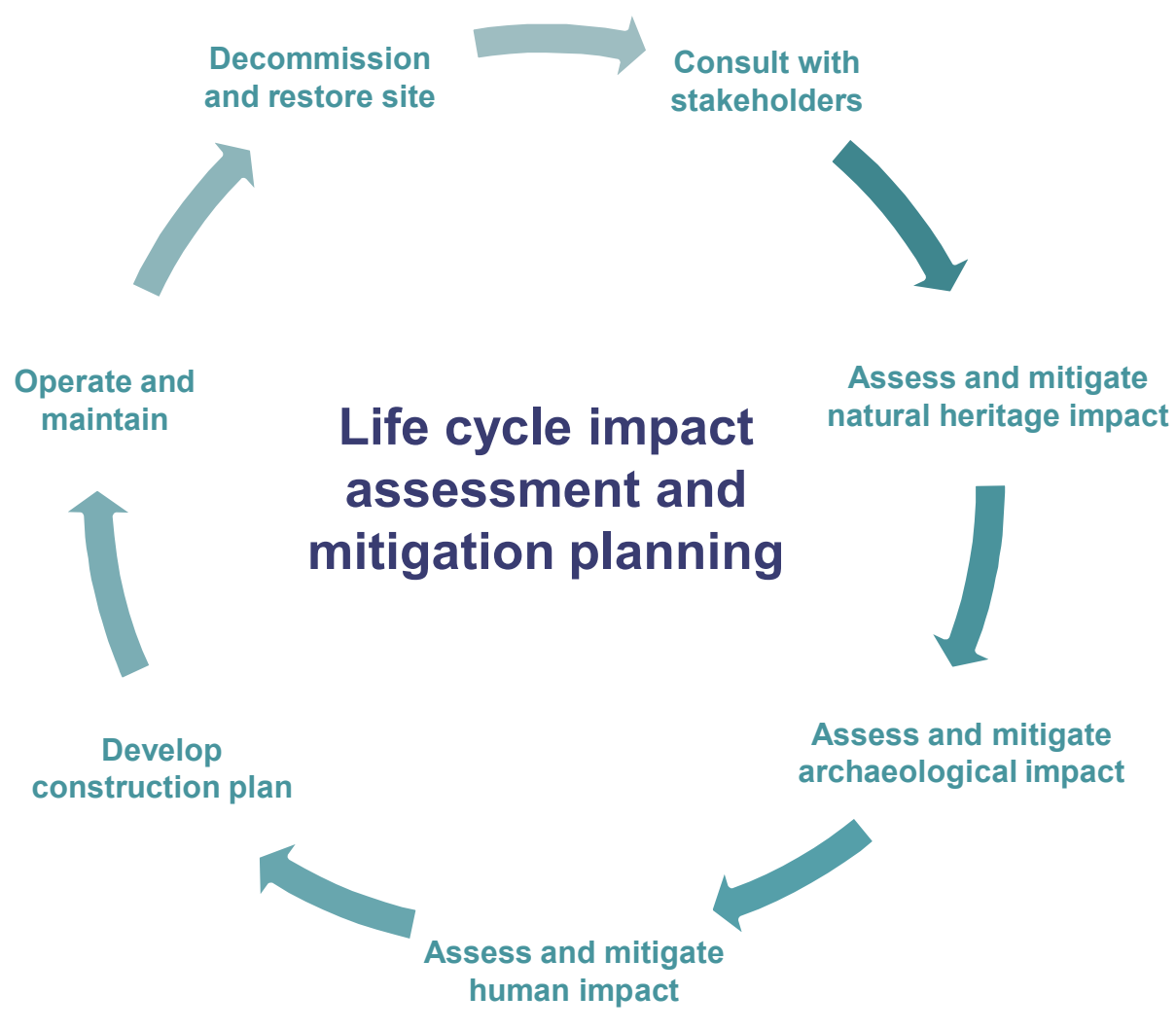
15 September 2010

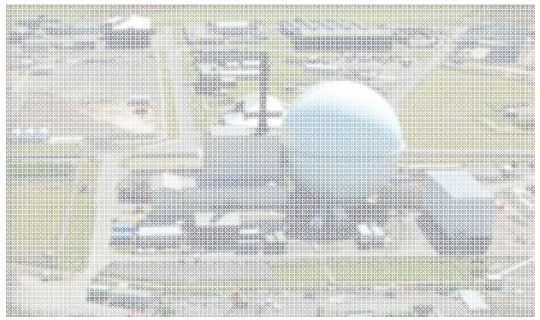
AMEC at a glance

- FTSE 100 company with market cap c. $4.9 billion
- 23,000 employees operating in 40 countries
- Services: consultancy, engineering and project management
- Sectors: natural resources, nuclear, clean energy, water and environmental
- Focused on designing, managing the delivery of, and maintaining strategic and complex assets

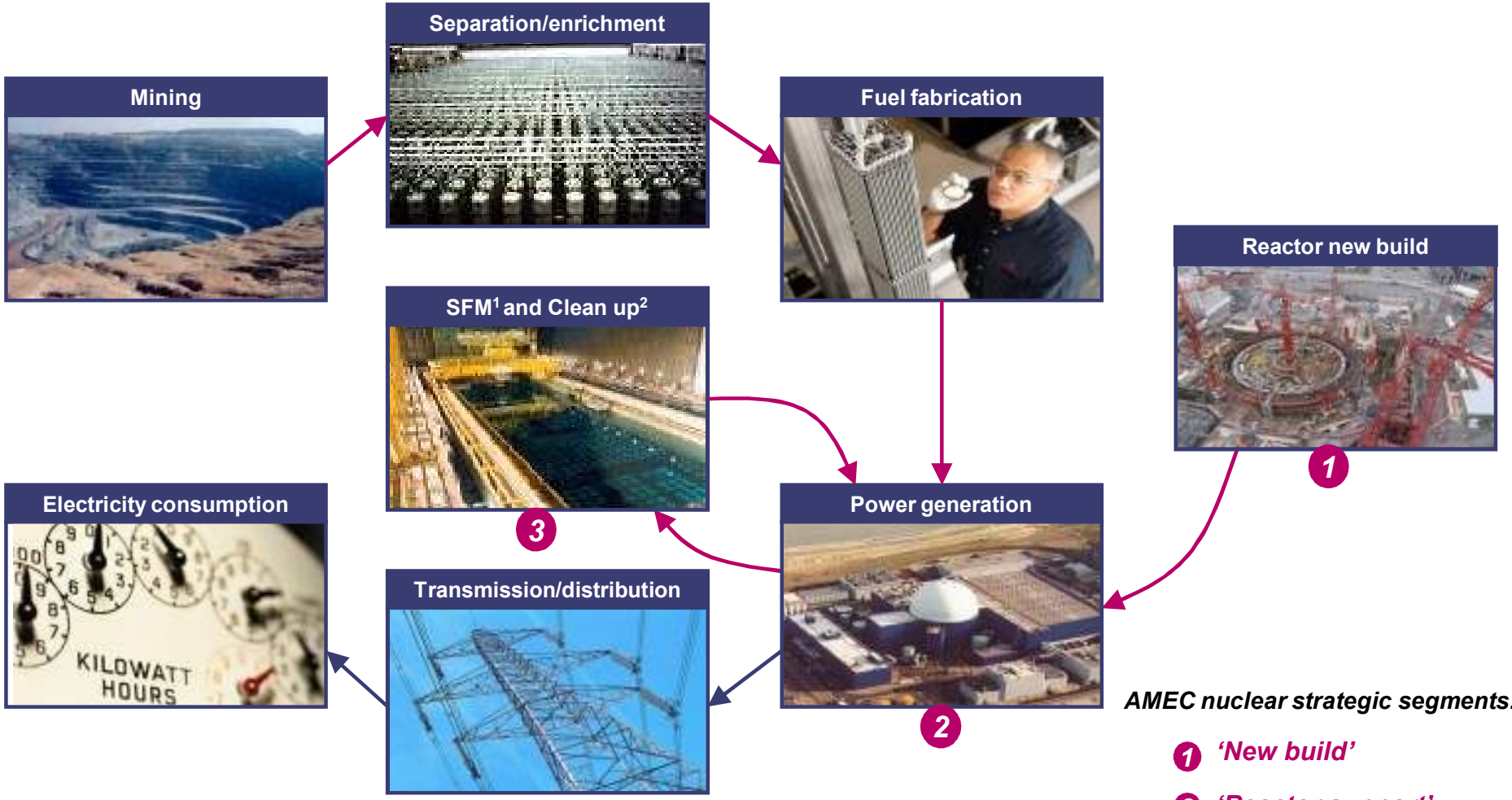


The full life cycle
Impact assessment and mitigation





Nuclear fuel cycle
AMEC capabilities and expertise



AMEC nuclear strategic segments:

1. ***'New build'***
2. ***'Reactor support'***
3. ***'Clean up'***

1 *Spent fuel management including storage and reprocessing*
2 *Waste management, post-operational clean up, decommissioning*

Nuclear
Nuclear Decommissioning Authority, Sellafield site

Commercial operations

Spent fuel reprocessing - THORP, MAGNOX & associated plant

Mixed uranium & plutonium oxide fuel production - MOX plant

Waste management

Waste and effluent treatment plants

Legacy fuel pond and silo mgt and clean-up

Decommissioning

Decommissioning and environmental remediation

Wind energy life cycle
AMEC capabilities and expertise

- Evaluate wind resource
- Assess environmental impacts
- Approvals and permits
- Constructability review

- Optimize site layout
- Civil and electrical design
- Estimate cost
- Procure major equipment

- Project management
- Wind farm construction
- Commission
- Environmental and permitting compliance

- Monitor performance
- Environmental monitoring
- Fault diagnosis
- Regulatory compliance
- Energy forecasting

- Prepare decommissioning plans and reports
- Estimate cost
- Restore site

Wind
Practices to reduce impacts, Kruger Energy project

Consult and develop

- Environmental management plan to minimize and mitigate environmental impact during all phases of construction

Design, engineer and procure

- Construction plan incorporating protection and mitigation measures
- Cement stabilized road base to minimise material transport

Construct and commission

- Staff safety and environmental awareness training
- Silt fences at water crossings
- Waste materials recycling program
- Ongoing repair of drain tiles to minimise impact on farming operations
- Clean up and site restoration

Oil Sands
AMEC's capabilities and expertise

Environmental

Social impact

Geotechnical

Technological innovation

Operator training

EPCM[1]

Pipelines

Reclamation

1 *Engineering, procurement and construction management*

Oil Sands
Developments by AMEC

Challenges	Technological improvements	Benefits
In-situ recovery		
▪ Deep oil sands reserves	▪ In-Situ technology – SAGD[1]	▪ Smaller development footprint
Tailings management		
▪ Suspended solids	▪ Conventional tailings	▪ Reclaim land faster
▪ Containment	▪ Consolidated tailings	▪ Quicker water recycling
▪ Water management	▪ Addition of paste unit	▪ Reduced water import
Energy management		
▪ Energy usage	▪ Add cogeneration/use less boilers	▪ Reduced use of natural gas
▪ Energy cost	▪ Fired steam boiler	▪ Reduced energy cost

1 *Steam assisted gravitational drain*

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