ERLN
Economies of Regions
LEARNING NETWORK

In partnership with the Urban Energy Network

SEA SUSTAINABLE ENERGY AFRICA

SALGA

South African CitiesNetwork

4th and 5th August 2015, Parktonian, Johannesburg

Local and sub-national renewable energy and energy efficiency

Challenges and opportunities for economic development

ERLN is an iniative of

GTAC government technical advisory centre
National Treasury
REPUBLIC OF SOUTH AFRICA

Government Technical Advisory Centre (GTAC)

Government Technical Advisory Centre - established in 2012 as a Government Component

Object: To assist Organs of State in building their capacity for efficient, effective and transparent financial management

Functions:

- Render technical consulting services to Centre of Government departments and Organs of State
- Provide specialised procurement support to high-impact government initiatives
- Render advice on the feasibility of infrastructure projects
- Provide knowledge management for projects undertaken
- Anything ancillary to the functions listed above

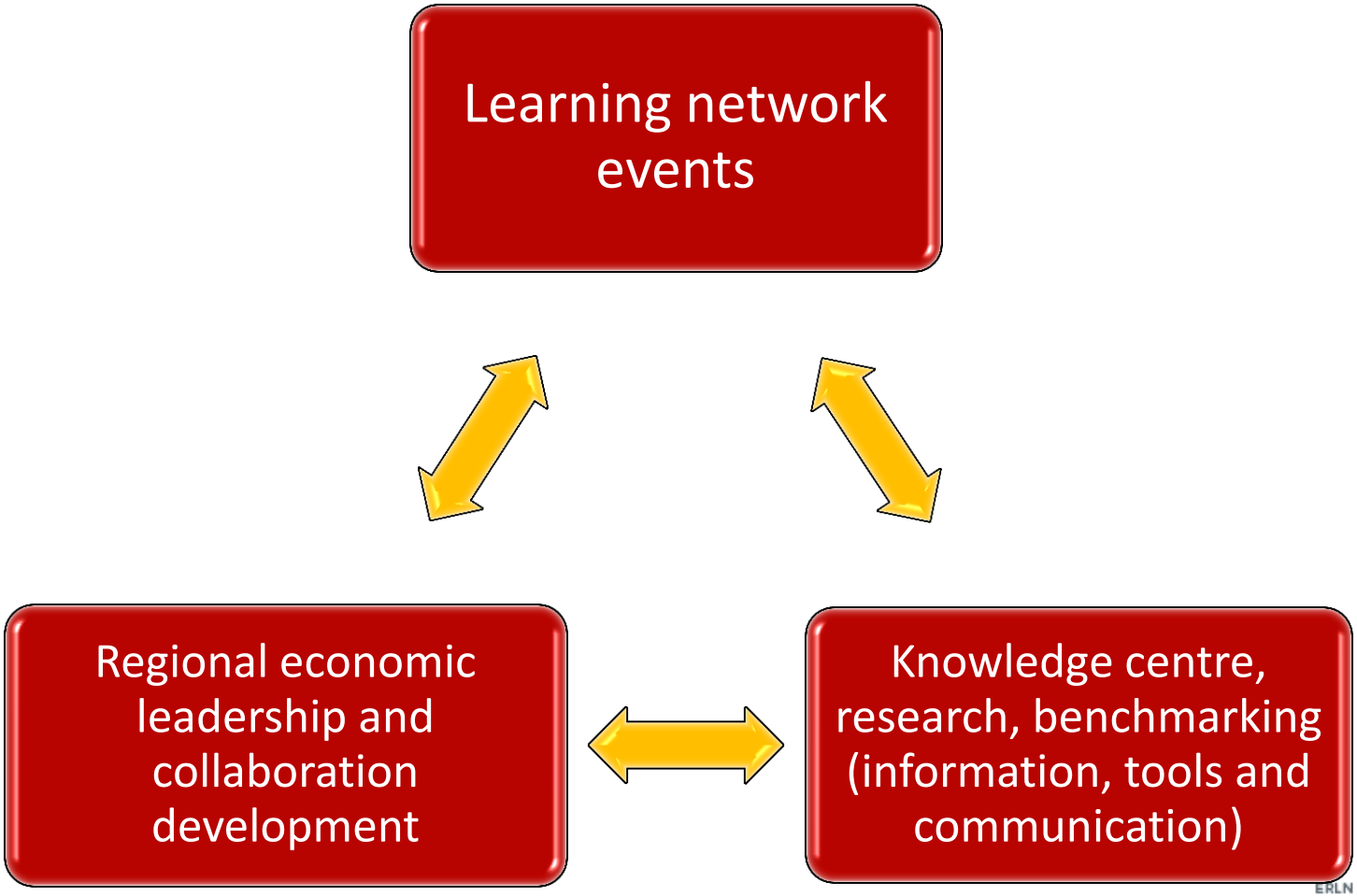
ERLN Purpose and focus

- The purpose of the Economies of Regions Learning Network (ERLN) is to bring together economic development practitioners in all spheres of South African government in a spirit of enquiry and cooperation and to strengthen their agency as leaders in the regional economic development arena.

- On this basis, and through a focus on regional economic development approaches, understandings, tools and skills, the ERLN aims to contribute to innovation and the effective advancement and realisation of South Africa's inclusive growth.

- The ERLN is a Community of Practice.

Programme components



www.erln.org.za

ERLN is an initiative of GTAC government technical advisory centre

Urban Energy Network

Local and sub-national energy: Objectives of workshop

- "Can we stimulate renewable energy (RE) and energy efficiency (EE) markets in a manner that is developmental and equitable whilst being sustainable for municipalities?"
  - Potentials for regional economic development through RE and EE trading systems and infrastructure
  - Energy security and resilience at a sub-national/municipal level
  - Challenges and opportunities for municipal revenue in context of RE and EE
  - The energy value chain and working across spheres and agencies towards a coordinated and constructive response

THE ENERGY LANDSCAPE

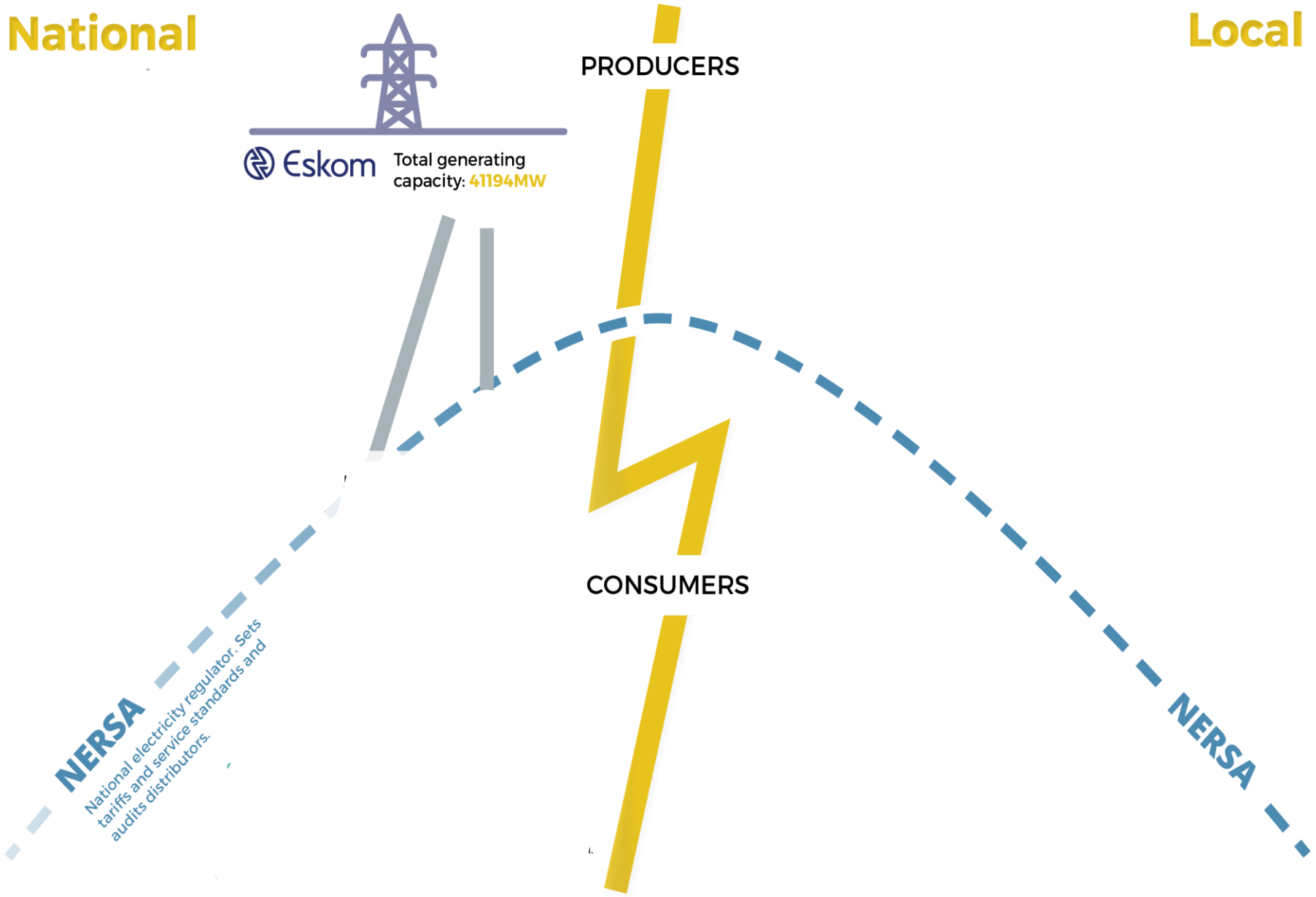
ERLN Economies of Regions LEARNING NETWORK

ERLN is an initiative of GTAC government technical advisory centre National Treasury REPUBLIC OF SOUTH AFRICA

THE ENERGY LANDSCAPE

ERLN Economies of Regions LEARNING NETWORK

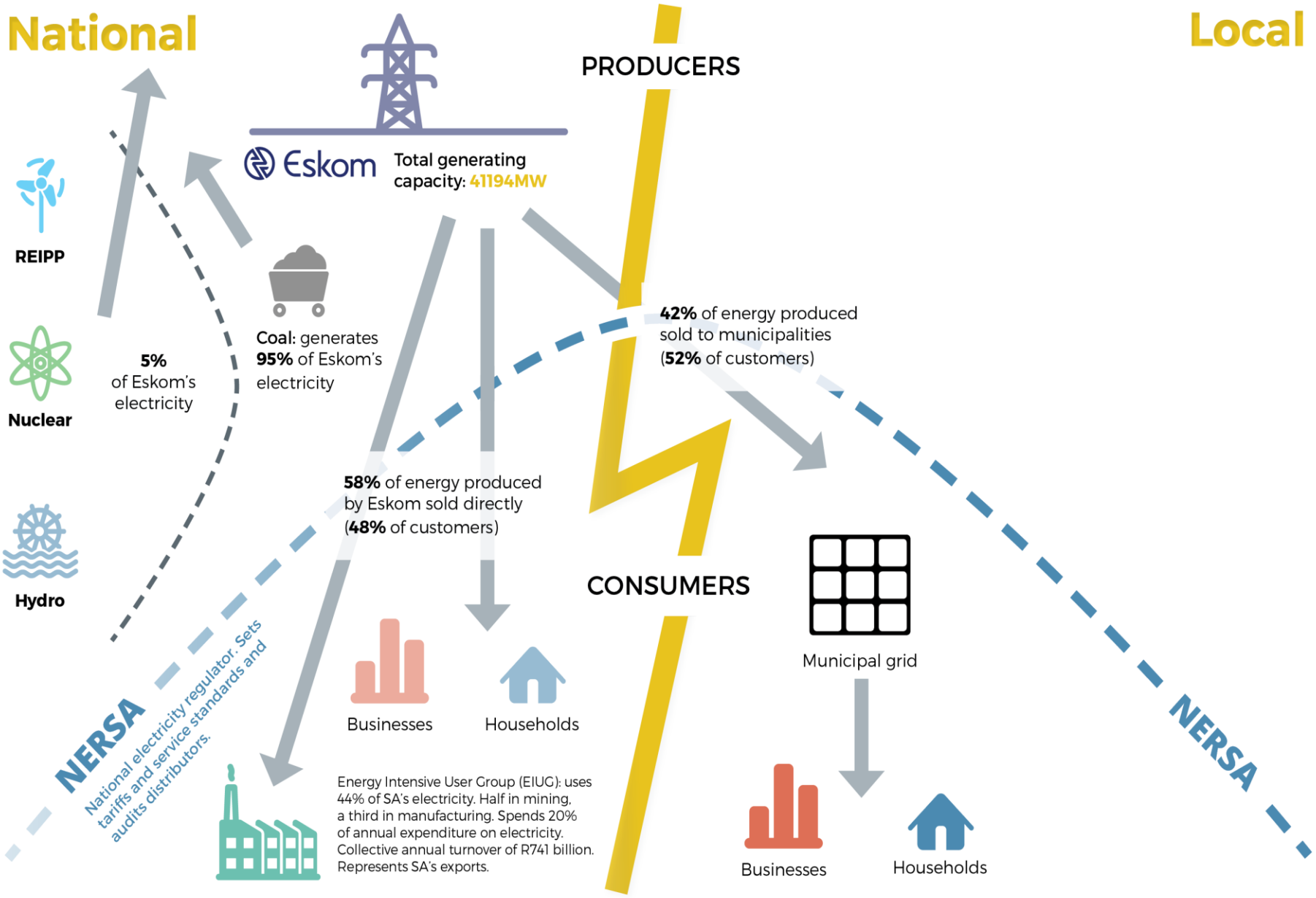
ERLN is an initiative of GTAC government technical advisory centre National Treasury REPUBLIC OF SOUTH AFRICA



THE ENERGY LANDSCAPE

ERLN Economies of Regions LEARNING NETWORK

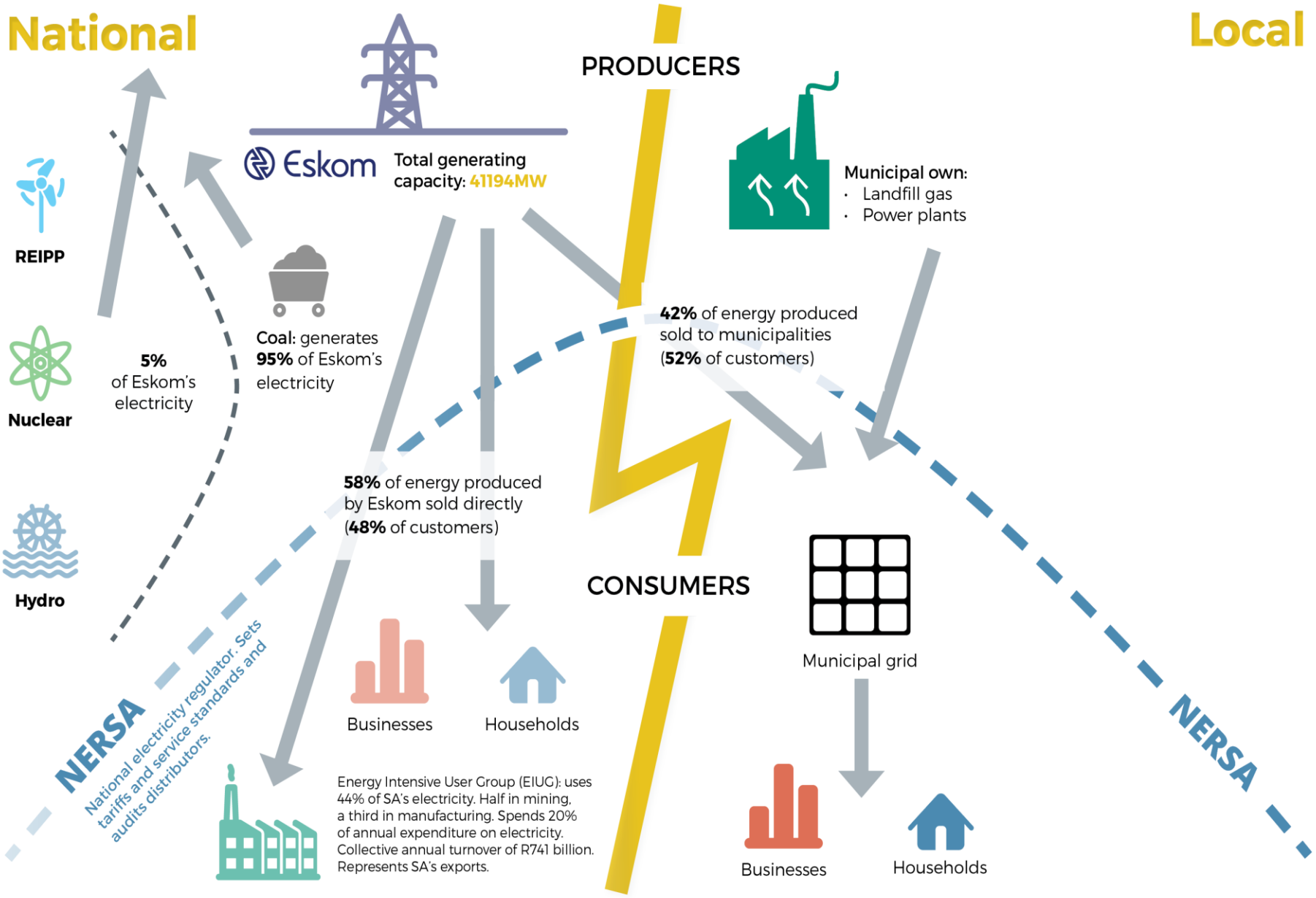
ERLN is an initiative of GTAC government technical advisory centre National Treasury REPUBLIC OF SOUTH AFRICA



THE ENERGY LANDSCAPE

ERLN Economies of Regions LEARNING NETWORK

ERLN is an initiative of GTAC government technical advisory centre National Treasury REPUBLIC OF SOUTH AFRICA



THE ENERGY LANDSCAPE

ERLN Economies of Regions LEARNING NETWORK

ERLN is an initiative of GTAC government technical advisory centre National Treasury REPUBLIC OF SOUTH AFRICA

National

Local

PRODUCERS

Eskom

Total generating capacity: 41194MW

REIPP

Nuclear

Hydro

Coal: generates **95%** of Eskom's electricity

5% of Eskom's electricity

Municipal own:
- Landfill gas
- Power plants

Embedded

Possible off-grid solutions

42% of energy produced sold to municipalities (**52%** of customers)

58% of energy produced by Eskom sold directly (**48%** of customers)

CONSUMERS

Businesses

Households

Municipal grid

Businesses

Households

NERSA

National electricity regulator. Sets tariffs and service standards and audits distributors.

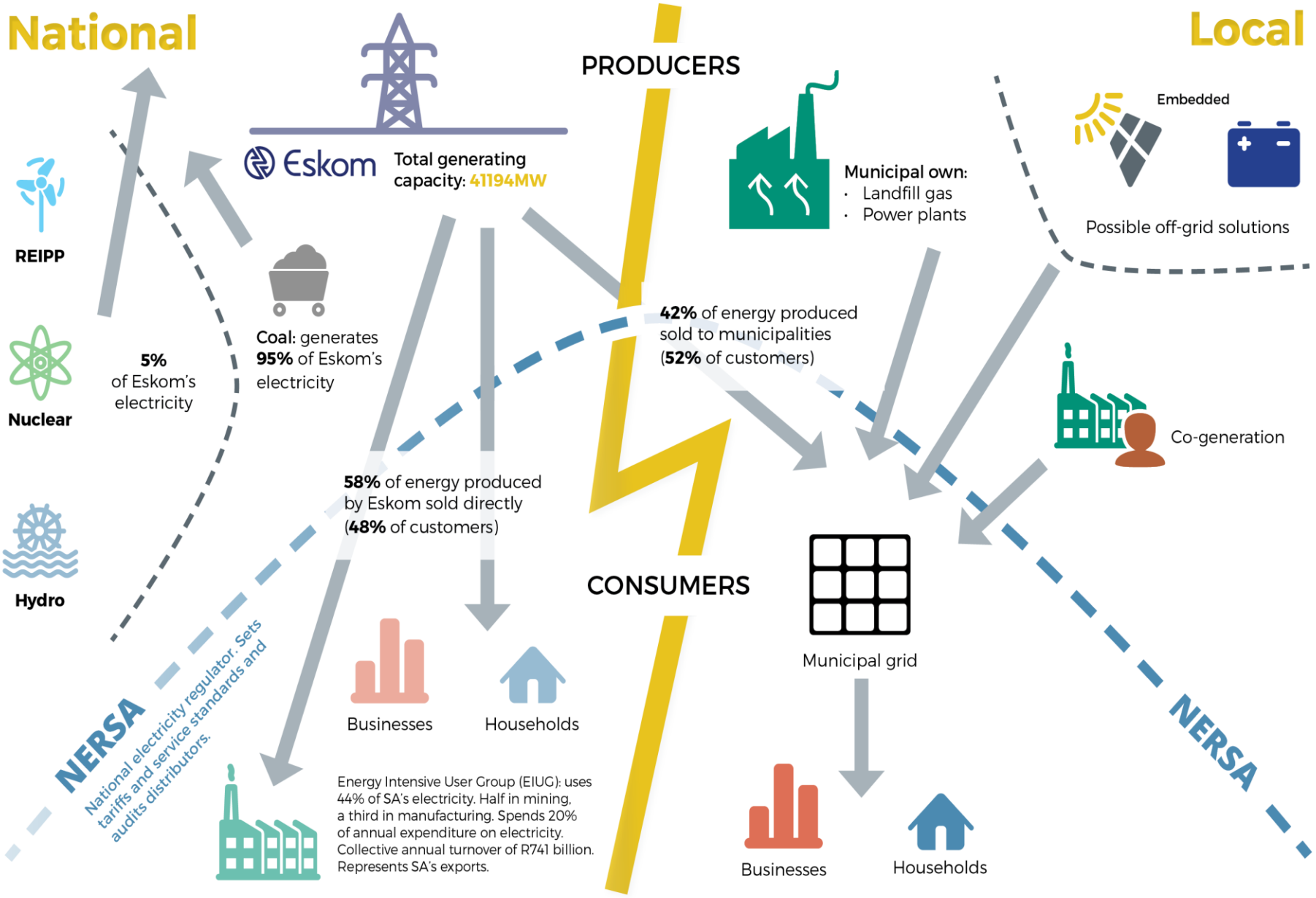
NERSA

Energy Intensive User Group (EIUG): uses 44% of SA's electricity. Half in mining, a third in manufacturing. Spends 20% of annual expenditure on electricity. Collective annual turnover of R741 billion. Represents SA's exports.

THE ENERGY LANDSCAPE

ERLN Economies of Regions LEARNING NETWORK

ERLN is an initiative of GTAC government technical advisory centre National Treasury REPUBLIC OF SOUTH AFRICA

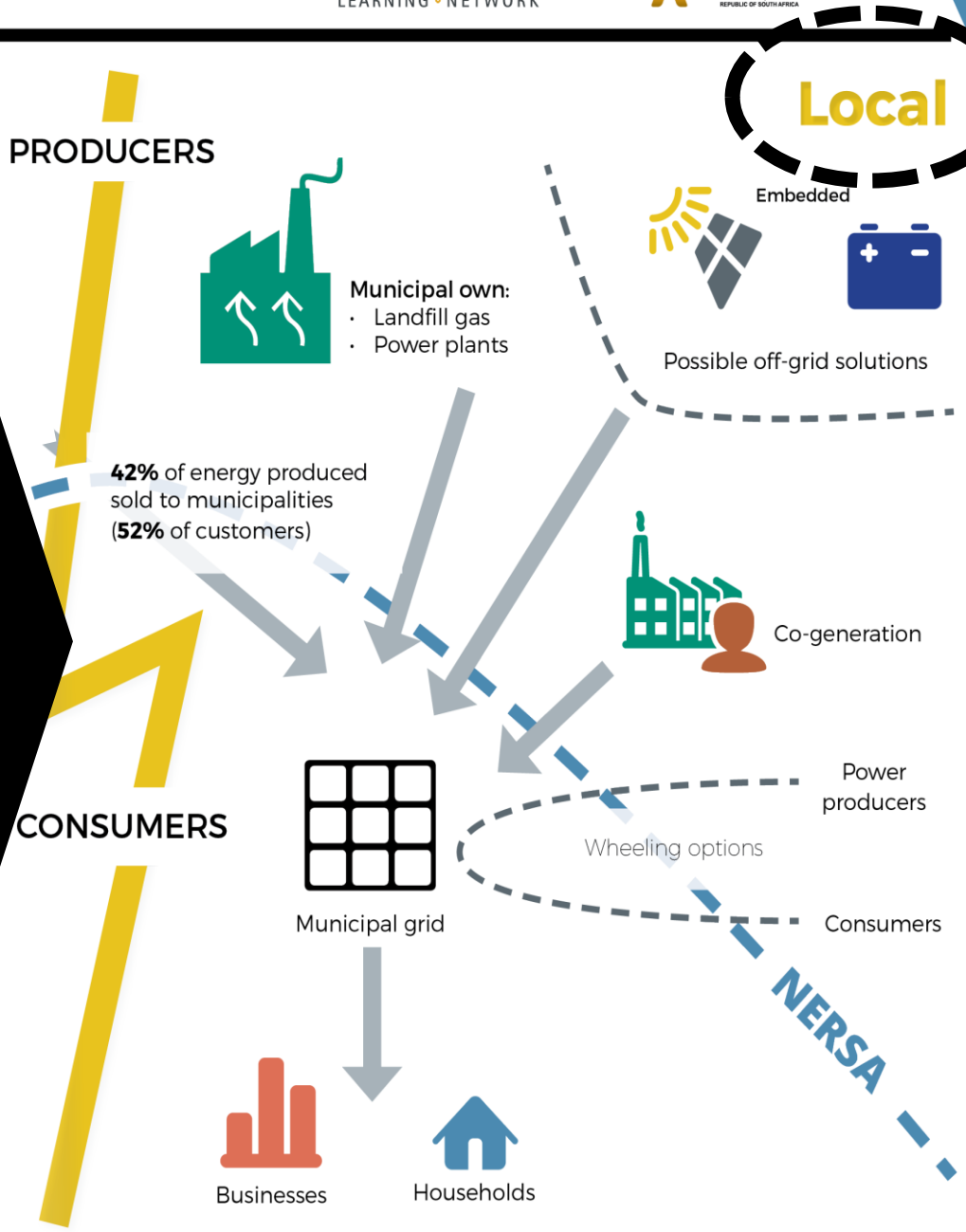


THE ENERGY LANDSCAPE

ERLN Economies of Regions LEARNING NETWORK

ERLN is an initiative of GTAC government technical advisory centre National Treasury REPUBLIC OF SOUTH AFRICA

This **local** production represents where the impetus of energy focus and investment is shifting – with the potential for disruptive impacts. It is leading to new energy consumption patterns and also new economic opportunities. But represents risks for municipal revenue, creating stranded infrastructure and negatively impacting on equity of access

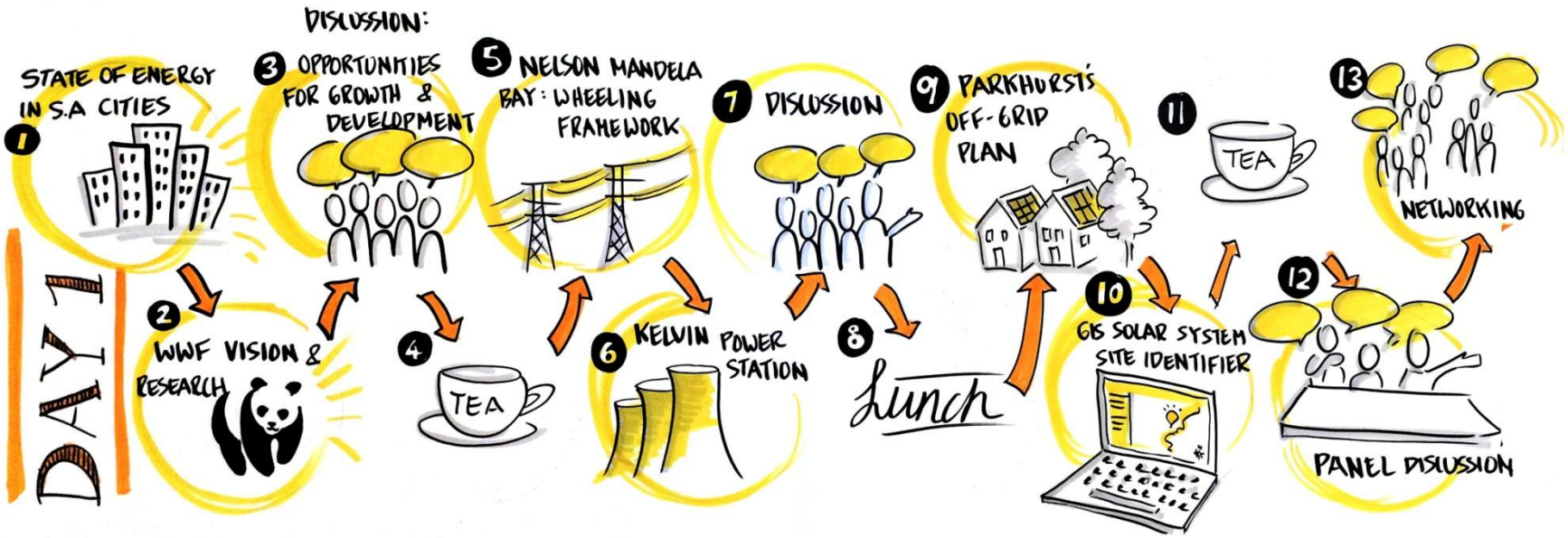


Questions

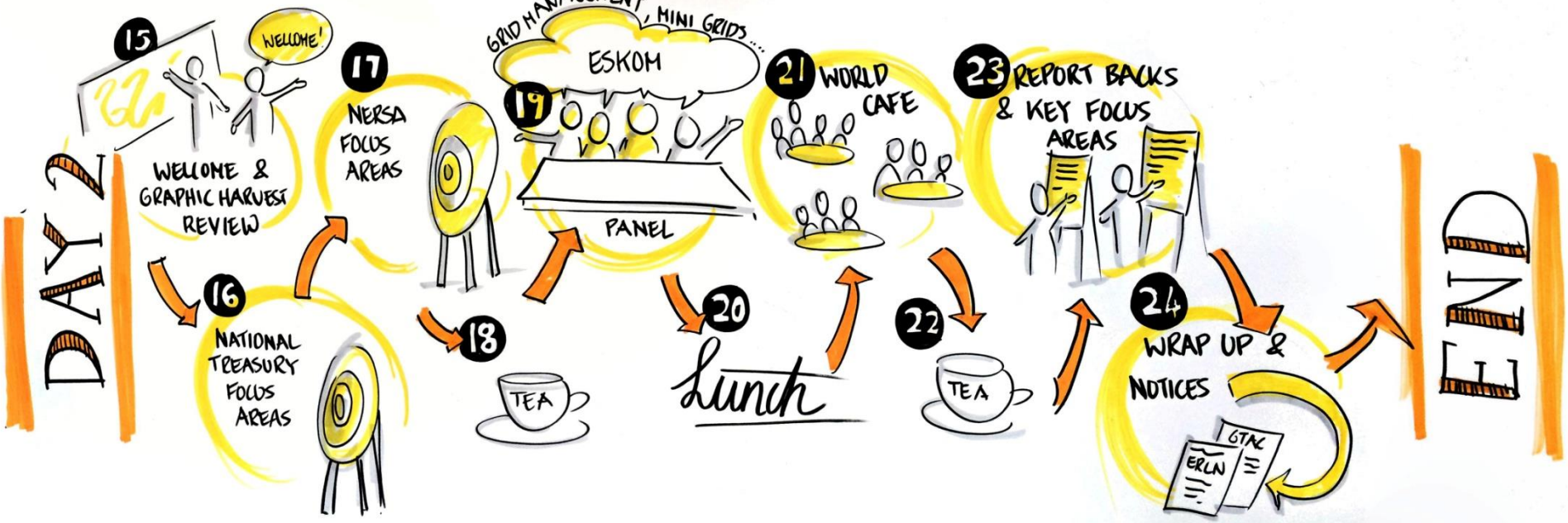
- How can we work together to:
  - Resolve challenges?
  - Unlock economic opportunities?
  - Enable equity and sustainability?

- Agenda

Agenda


DAY 1
1 STATE OF ENERGY IN S.A CITIES
2 WWF VISION & RESEARCH
DISCUSSION:
3 OPPORTUNITIES FOR GROWTH & DEVELOPMENT
4 TEA
5 NELSON MANDELA BAY: WHEELING FRAMEWORK
6 KELVIN POWER STATION
7 DISCUSSION
8 Lunch
9 PARKHURST'S OFF-GRID PLAN
10 GIS SOLAR SYSTEM SITE IDENTIFIER
11 TEA
12 PANEL DISCUSSION
13 NETWORKING

Agenda


DAY 2
15
WELCOME!
WELCOME & GRAPHIC HARVEST REVIEW
16
NATIONAL TREASURY FOCUS AREAS
17
NERSA FOCUS AREAS
18
TEA
GRID MANAGEMENT, MINI GRIDS...
ESKOM
19
PANEL
20
Lunch
21
WORLD CAFE
22
TEA
23
REPORT BACKS & KEY FOCUS AREAS
24
WRAP UP & NOTICES
GTAC
ERLN
END

ERLN
Economies of Regions
LEARNING NETWORK

In partnership with the Urban Energy Network

SEA SUSTAINABLE ENERGY AFRICA

SALGA

South African CitiesNetwork

Let's get started!

ERLN is an iniative of

GTAC government technical advisory centre
National Treasury
REPUBLIC OF SOUTH AFRICA