GreenCape

Who we are

GreenCape is a non-profit organisation that drives the widespread adoption of economically viable green economy solutions.

We work with businesses, investors, academia and government to help unlock the **investment** and **employment** potential of green technologies and services, and to support a transition to a resilient **green economy**.

GreenCape was established in 2010 to support the development of the green economy in the region.

Current Policy

Policy Plan	Coal	Coal (Decom.)	Nuclear	Hydro	Storage	PV	Wind	CSP	Gas & Diesel	Other (Distributed Generation, CoGen, Biomass, Landfill)
Current Base	37 149		1 860	2 100	2 912	1 474	1 980	300	3 830	499
2019	2 155	-2 373					244	300		Allocation to the extent of the short term capacity and energy gap.
2020	1 433	-557				114	300			
2021	1 433	-1 403				300	818			
2022	711	-844			513	1000 (400)	1 600			
2023	750	-555				1000	1 600			500
2024			1 860				1 600		1 000	500
2025						1000	1 600			500
2026		-1 219					1 600			500
2027	750	-847					1 600		2 000	500
2028		-475				1000	1 600			500
2029		-1 694			1 575	1000	1 600			500
2030		-1 050		2 500		1000	1 600			500
Total Installed Capacity by 2030 (MW)	33 364		1 860	4 600	5 000	8 288	17 742	600	6 380	
% Total Installed Capacity (% of MW)	43		2.36	5.84	6.35	10.52	22.53	0.76	8.1	
% Annual Energy Contribution (% of MWh)	58.8		4.5	8.4	1.2	6.3	17.8	0.6	1.3	

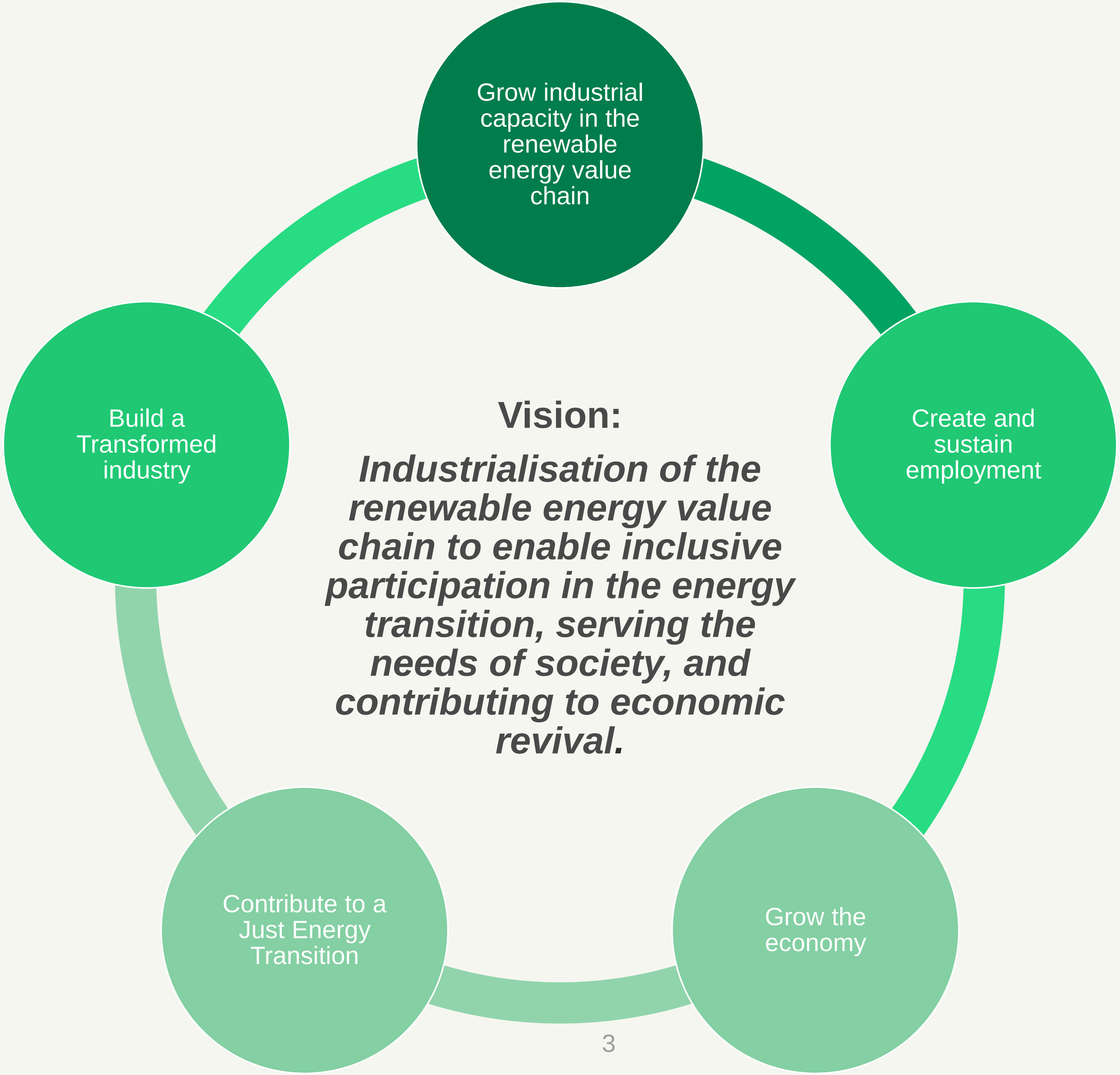
Committed / Already Contracted Capacity

Capacity Decommissioned

Vision and Objectives

Stakeholder inputs have motivated high-level aspirations

- High level objectives were supported in IRG meeting.
- Diverse perspectives on specific indicators introduced a need for deeper engagement to confirm target levels under each objective.



Draft focus areas are emerging

Vision

Industrialisation of the renewable energy value chain to enable inclusive participation in the energy transition, serving the needs of society, and contributing to economic revival.

Over-arching objectives

- Grow industrial capacity in the renewable energy value chain
- Create and sustain employment
- Grow the economy
- Build a Transformed industry
- Contribute to a Just Energy Transition

Pillars of the plan

1
2
3

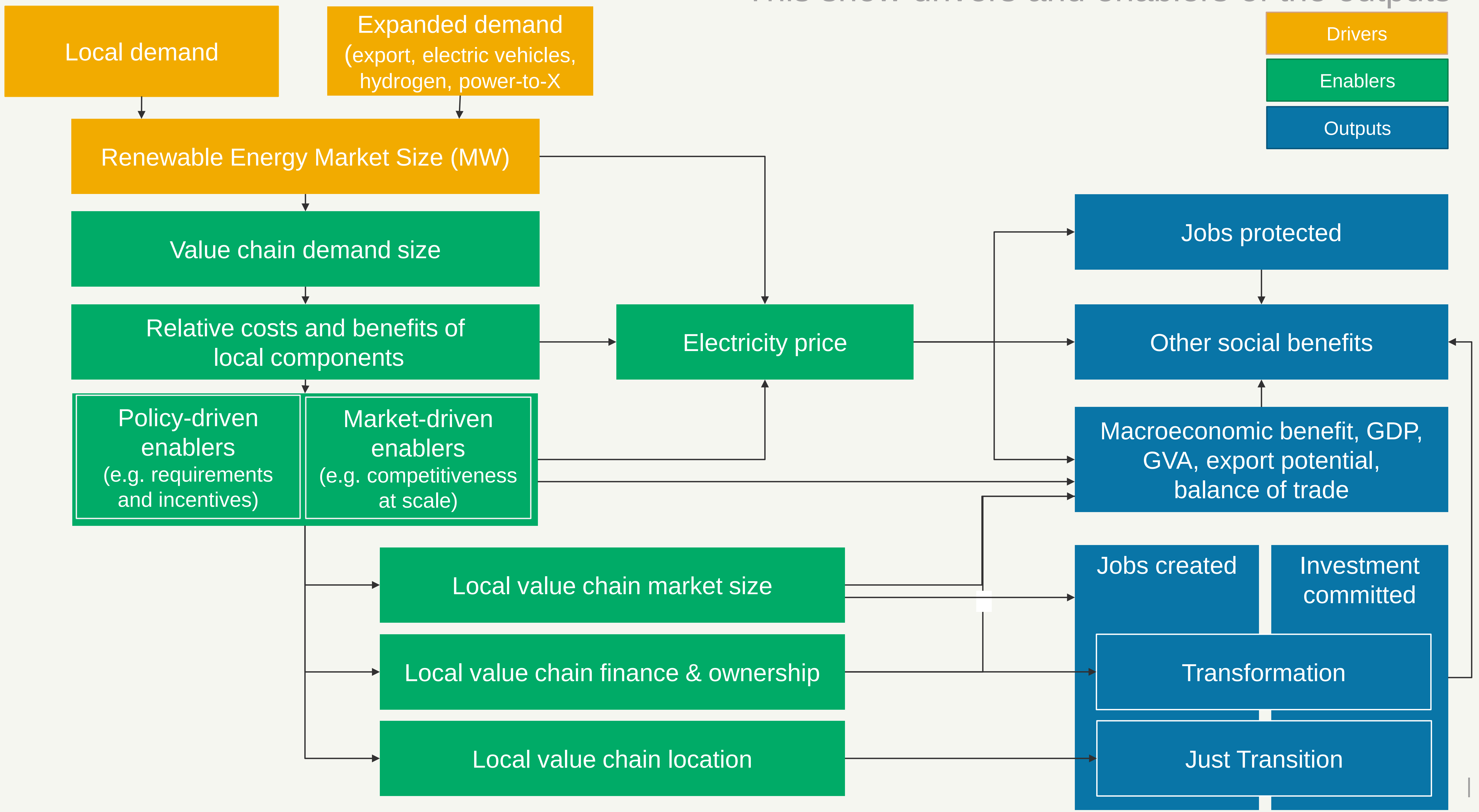
- Optimise value add per MW (GVA & manufacturing jobs)
- Develop export market for local products and skills
- Transform, enabling Black ownership and employment
- Identify and develop skills
- Enable locating in Transition economies
- Future increased electricity demand (future looking)
- Future increased energy demand (future looking)

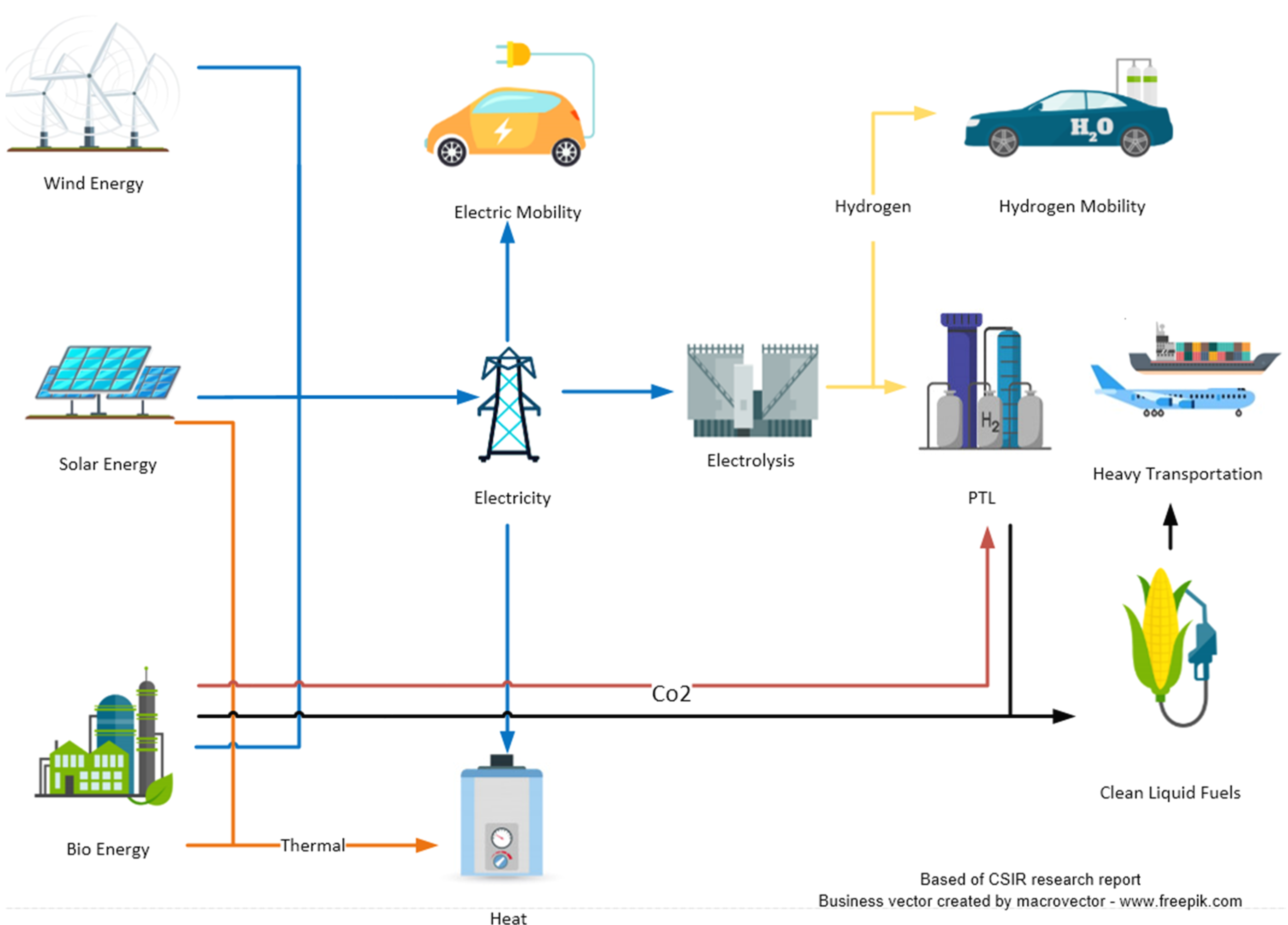
Supporting foundation

Certainty in the market

We have a conceptual framework

This show drivers and enablers of the outputs





Wind Energy
Electric Mobility
Hydrogen
H_2O
Hydrogen Mobility
Solar Energy
Electricity
Electrolysis
H_2
PTL
Heavy Transportation
Co2
Bio Energy
Thermal
Heat
Clean Liquid Fuels
Based of CSIR research report
Business vector created by macrovector - www.freepik.com

Framing

Scenarios matrix

Scenario 1 IRP Roll-out	Scenario 2 Evolution	Scenario 3 High Road
Changing how we roll out Renewable energy.	Optimising Electricity planning to maximise local potential	Major economic restructuring pathways –
• Procurement Rules • Incentives • Timing	• Adjusted build limits • Coal Decommission	• Green Hydrogen • Electric Vehicles • Power to Heat