

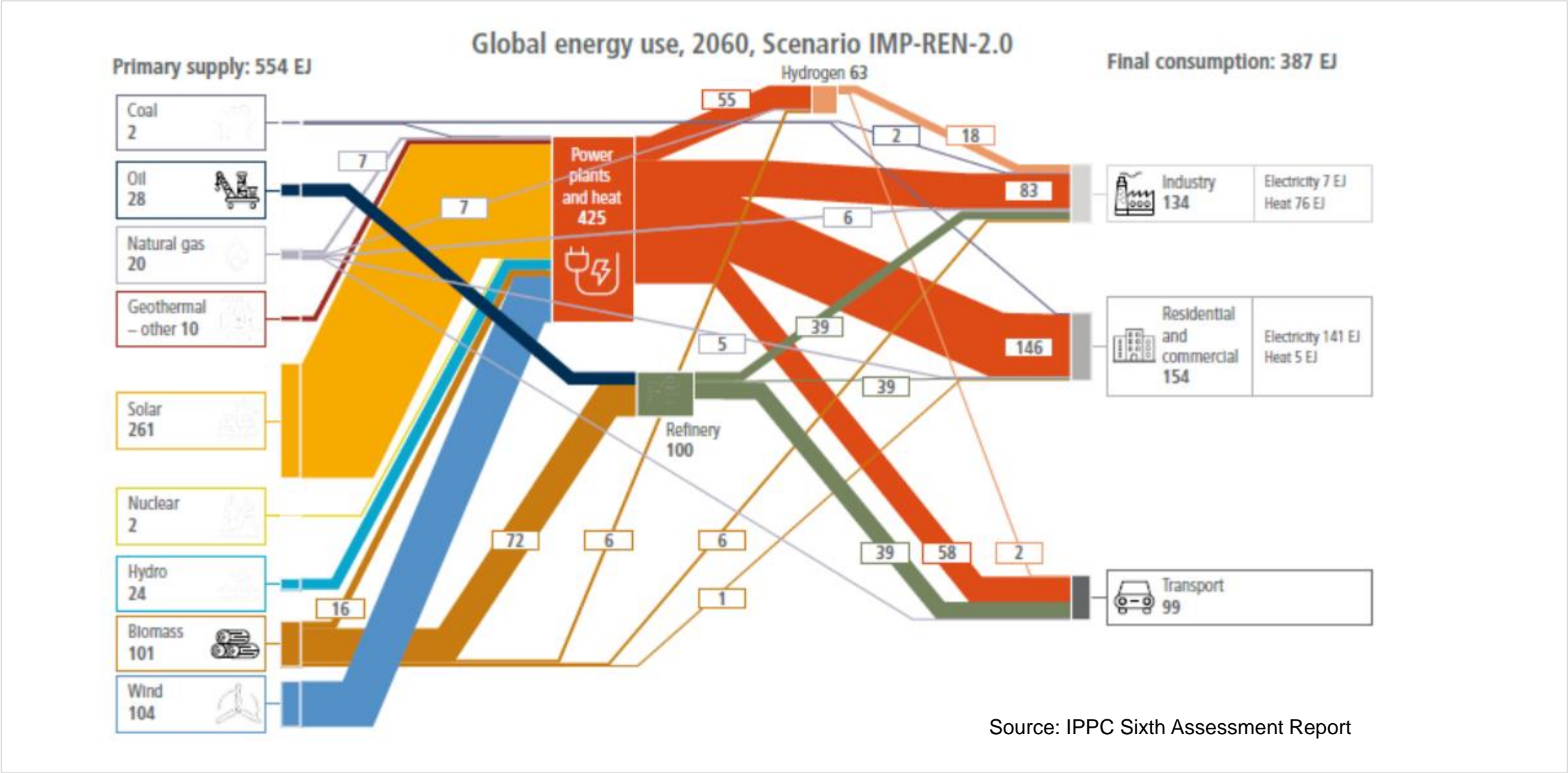


Cities - driving electrification and decarbonisation

Vida Rozite

4 October, UNFCCC Fourth Global Dialogue Sharm el-Sheikh mitigation ambition and work programme

Towards an electrified future



Strategies for Affordable and Fair Clean Energy Transitions

World Energy Outlook Special Report

Report — May 2024



- Many clean energy technologies are already more cost competitive over their lifespans than those reliant on conventional fuels
- The lower operating costs of electric transport, efficient cooling, insulated buildings will bring savings to people and businesses
- Governments worldwide collectively spent around USD 620 billion in 2023 subsidising the use of fossil fuels
- Governments worldwide collectively spent USD 70 billion on support for consumer-facing clean energy investments
- Realising the gains of clean energy transitions hinges on unlocking higher levels of upfront investment
- The quicker the move on clean energy transitions, the more cost effective it is for governments, businesses and households

Electrification and net zero tech – hurdles but many opportunities

Costs

Upfront cost of technologies

Cost of electricity vs cost of other fuels

Access to finance

Risk of inequity

Need for coordinated action across multiple fronts in short time frames

Lack of data and capacity

Silos and misaligned planning processes

Infrastructure constraints

Time-lag from policy to impact

Supply chain

Access to technologies

Access to service providers

Access to circular solutions

Opportunities

Electric public transport

Energy communities

Bulk procurement

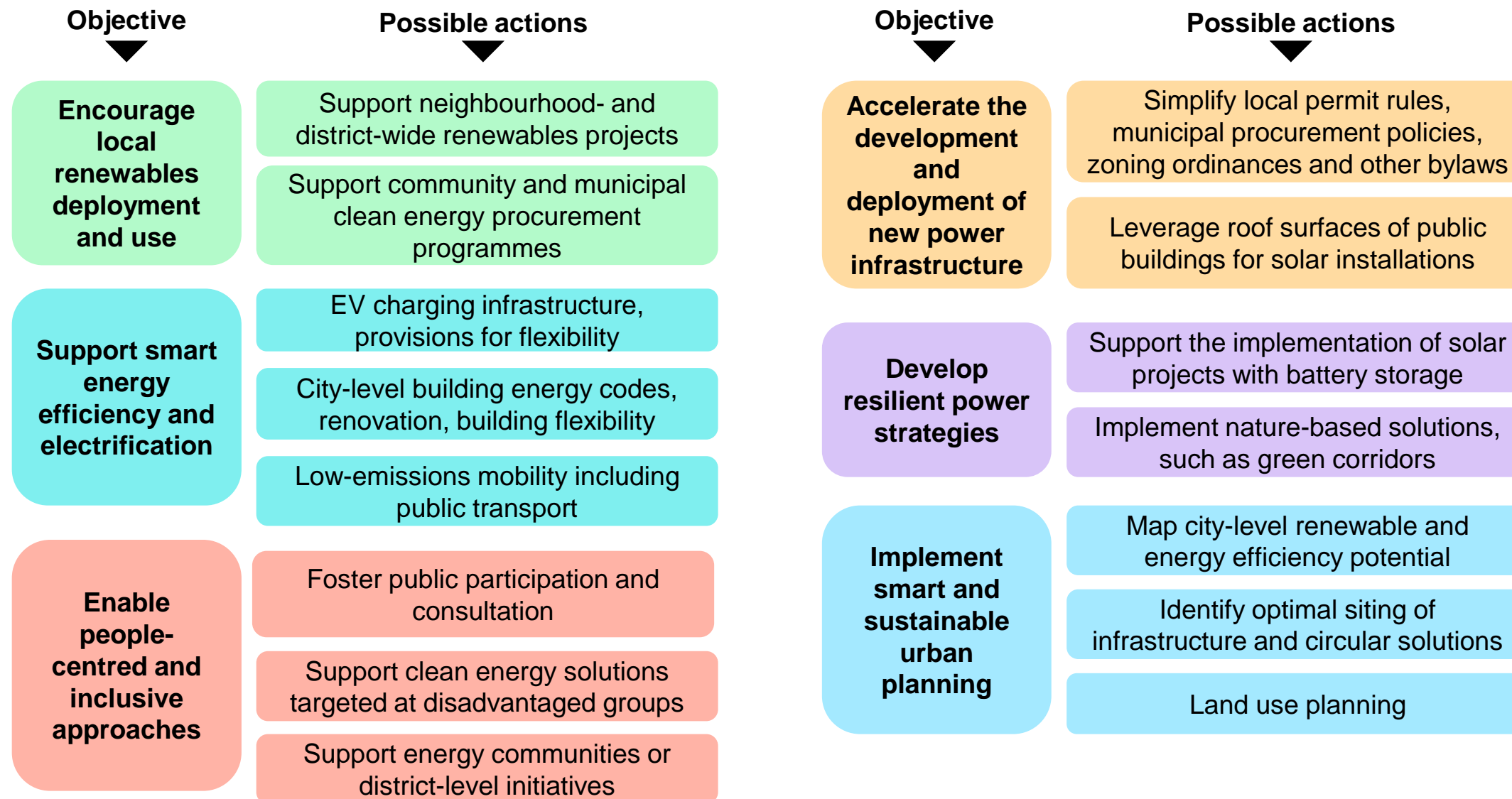
Energy as a service

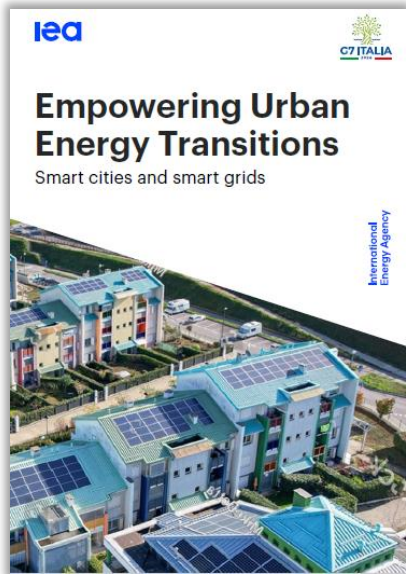
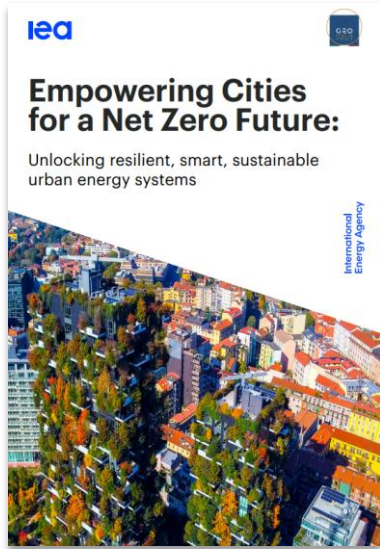
Solar home systems

Digitalisation & data

And many more...

How cities can help drive change in energy systems





- India public- private partnership for 10000 electric buses in cities with limited public transport
- Drammen in Norway uses a heat pump to provide district heating for 60 00 inhabitants saving EUR 2 million and 1.5 million tonnes of CO₂ a year
- Solar communities in Rio de Janeiro favelas - lowering bills and improving access to services
- Milan – “All you can share” mobility system – removing 8-15 cars from roads per shared vehicle and creating USD 2.2 million in revenue to improve services
- Jakarta has committed to electrifying 100% of its Transjakarta bus fleet by 2030