100% RE Building Blocks

A practical toolkit for a sustainable transition to 100% Renewable Energy





Mobilise local resources		Preliminary assessments	
Map stakeholders and their interests and identify existing engagement platforms and potential gaps for different stakeholders.	Identify the RE potential of your region.	Analyse energy consumption data and identify energy shares by source.	Measure current Energy Costs.
Organize workshops and roundtables to identify interests, roles, level of engagement, form coalitions, set up taskforces, engage different actors, start planning etc.	Define geographical boundaries of the 100%RE area in transition.	Identify GHG emissions by section.	Measure and quantify Externalities.
Identify programs, funds as schemes (from local to inte			

Identify programs for support and assistance

Identify programs, funds and supporting schemes (from local to international from across departments (energy, environment, economic development, social welfare, etc.) that might support your 100%RE transition.





Define the 100% RE target		Mode	el 100% renewa	ble energy scer	nario
Define what sectors are included in the target.	Explain how you calculate your RE shares.	Identify potential partners in th region such as universities/rese institutions to conduct the mod	earch	Evaluate the in changes the so	
		Explore opportunities to fund a 100% RE scenario.		Explore how th sustainability	ne 100% RE scenario meet criteria.
		Estimate potential socio-economic benefits			
Define your mid-term target / by 20	Define your long-term target / by 20	Calculate potential savings such as import of conventional energy and additional local revenues.	Explore short-term, mid-term and long term economic savings.		Define externalised costs of current energy system.
Define the scope of the target (e.g. community- wide, municipal operations etc.).	Define the role of public institutions, private entities, citizens, utilities and energy companies.				





Fix bindir	Define compreh	ensive legal	and regulat	ory frameworks	
Map existing policies for renewable energy.	Identify partnerships with other levels of government.	Identify gaps in the existing legislative framework to define potential additional laws and regulations to be implemented.	Identify law regulations should be an	that	Map which stakeholders are addressed by the existing laws and policies.
Identify legislative gaps and barriers.	Map overlapping and contradicting policies and legislations across sectors.	Establish relevant institutionalized bodies Set up institutional bodies responsible for a 100%RE transition across levels of government (e.g. commissions, taskforces, supervisory bodies, institutions).			emplary bodies
Define political mandate in energy policy of the particular juristiction.	y				





Promote energy conservation and efficiency

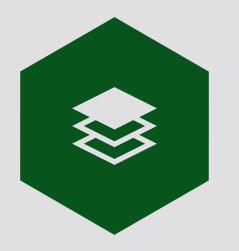
Change b	oehaviour	Retrofit existing b	uilt-environments
Engage your community in local decision making processes related to energy consumption and production.	Define projects and platforms to foster community engagement and education particularily on energy.	Identify percentage of your GHG emissions coming from buildings.	Define energy efficiency improvements to be implemented in buildings and its potential economic savings.
		Define the kind of energy that is used in the built environment (e.g. embodied energy, operational energy, on-site generation, passive energy conservation etc.).	Identify winners and loosers of efficiency measures.
		Upgrade infrastructures and	support efficient technologies
Map existing policy initiatives that target change of behaviour with in a community or society.		Identify inefficient infrastructures in your community.	Identify efficiency potential of sector integration and infrastructural changes.
		Identify winners and loosers of measures.	





Increase and integrate RE across sectors

Increase renewable	e electricity generation		Tack	de the Built Environment C	hallen	nge
List ways to support the creation of new RE generation capacity.		Support the creation of new RE generation capacity.	of new RE generation (see overlaps with other			
		stakeholders in the cu			lch	Identify beneficials of a smart energy system and adapt finance mechanisms/ energy pricing.
Tackle	nobility and transport cl	allenges		Modernize the grid an	d othe	er infrastructure
Evaluate and assess your community's public transport system.	Encourage active mobility (walking and sycling), public transport and mix-use developments.	Evaluate the community's public transport system and analyse citizen's mobility behaviour incl. connection to surrounding regions/suburbs.	Assess the implications of larger RE penetration in terms of storage capacity, demand side management and overall infrastructural upgrade.		infra dema	rove and enlarge power network astructure, storage options and and side management solutions ccommodate larger RE shares.



Identify financial resources

Introduce innovative and alternative financing mechanisms							
Map existing financing mechanisms for building renewable energy infrastructure and implementing energy efficiency measures.	Identify fin to achieve target.		Map role of stakeholders (incl. citizens) in existing finance mechanisms and identify potential innovation.	Explore finance mechnisms implemented by other pioneering institutions with similar conditions.	of juristic	ew finance	Develop or identify decentralized fiscal policies.
Implement new mechani internalize externalities			Establish stable, long-terr support scheme.	n	support sys investments them by "Er "Energy Effi	eterm and stable tems that encourage s in RE and categorize hergy Production", ciency" and on Reduction".	





Ensure accountabili	ty and transparency	Promote inclusive comm	nunication and outreach		
Evaluate how transparent the systems in place are and how this affects citizen's participation.	Develop mechanisms to ensure accountability and transparency.	Develop inclusive citizen consultation processes.	Define a communication strategy and identify channels to reach a diverse range of actors.		
		Assess beneficiaries and loosers of the t align the communication message base			
Empower a decentralized and	diversified energy transition	Safeguard a socially just transition			
Explore opportunities for new actors such as citizens to become active stakeholder (investor, owner, member etc.) in the energy system.	Support community-based cooperative models as part of the energy market.	Assess number and the kind of jobs in the conventional energy sector (direct and indirect) and define steps to facilitate a smooth transformation of traditional work forces.	Engage universities, vocational schools, education centers to assess potential of training measures for workers from the conventional energy system.		
Assess socio-economic benefits of a decentralised, diversified energy system (see overlaps with other building blocks).	Map existing models for decentralised investment or decision making in other sectors and explore transferrability to energy sector.				



Nurture vertical and horizontal cooperation and integration

35

			Further vertic	al cooperation			
Map existing partnerships with other governments and institutions on local, national, regional and international level.		Assess benefits of existing partnerships and potential gaps.		Establish formal structures (if not yet existent) to facilitate vertical cooperation.		Map needs for cooperation with other governments on national, regional and international level to achieve the envisioned goal.	
		Cı	ultivate horizo	ntal cooperatio	n		
Map existing partnerships with neighbouring juristictions as well as with stakeholders within the juristiction.	exist	ess benefits of sting partnerships and ential gaps. Establish form (if not yet exis facilitate horiz cooperation.		stent) to	Map needs for coopera with neighbouring juristictions as well as with stakeholders with the juristiction to achie the envisioned goal by defining different roles and functions.	nin eve	Map political mandate of different public institutions within the juristiction and assess potential overlaps and gaps.





Promote knowledge generation and capacity building

Generate and dissemin	ate specific knowledge	Make knowledge a	nd data accessible
Establish projects frameworks that advance research and capacity building.	Develop activities and programs to facilitate knowledge sharing.	List tools where data and knowledge can be easily shared and accessed.	Develop a space where different actors can contribute into the common pool of knowledge.
		Map role of stakeholders in existing tools.	Assess which data is needed by whom, who owns it and for whom it is accessible.
		Promote capacity b	uilding and training
Map relevant stakeholders.		Develop and reinforce local capacities and expertise for necessary steps towards 100% RE.	Develop capacity building projects to support and train staff.
		Define relevant capacities among different stakeholders.	Assess existing capacities and expertise in the juristiction.





Engage in networks

Form and engage in local and regional networks								
Define potential networks with other local and regional jurisdictions.	Define potential networks with local civil society groups.	Define potential networks with the private sector.	Map needs for engaging in local and regional networks.	Map existing networks, the role of their members and potential gaps.	Define suitable focal point within the juristiction for the network.			
		Participate in inter	national networks					
Map needs for engaging international networks.	in	Map existing networks, the role of their members and potential gaps.	he d	Define suitable focal po within the juristiction f the network.	int or			

