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The Renewable Energy and Energy Efficiency Partnership (REEEP)

ICLEI World Congress
„Local Renewables – Session C 9”

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Global Dynamics – a more unstable world

- Growing concern over energy costs, security of energy supply and reliability of networks;
- Growing environmental concerns: climate change impacts and local pollution must be addressed in concrete solutions;
- Options/responses:
 - Increase efficiency
 - Utilize renewable energy sources
- Municipalities have a key role to play as these responses are decentralized by nature.



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Why consider local renewables and energy efficiency at local level (1)?

- Increased **efficiency** and **reliability** of the system – reduced transmission and distribution losses, reduced need for costly upgrade in T and D system upgrades, power is generated closer to the point of use thus matching supply and demand
- **Security** – reduced fuel imports
- **Savings** – municipal budgets can become more effective
- **Local Employment** – since the system is closer, jobs to install, maintain and finance are closer, improvement of local business environment
- **Environment** – greenhouse gas and local pollutant emissions fall, waste becomes energy, poverty is reduced.



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Why consider energy efficiency at local level (2)?

- Obtain more useful energy services from existing energy supply capacity;
- Free up capital for needed investment and operational tasks;
- Manage better municipal assets and increase comfort;
- Address numerous social issues such as improving living standards, reducing poverty and mitigating problems related to rapid urbanisation.



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What choices are there? The case of renewables

- Solar as direct heat or electric power
- Conversion of waste to gas
- Small scale hydro plants
- Wind power
- Geothermal energy for heat or power
- Biofuels for transportation



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What choices are there? The case of energy efficiency

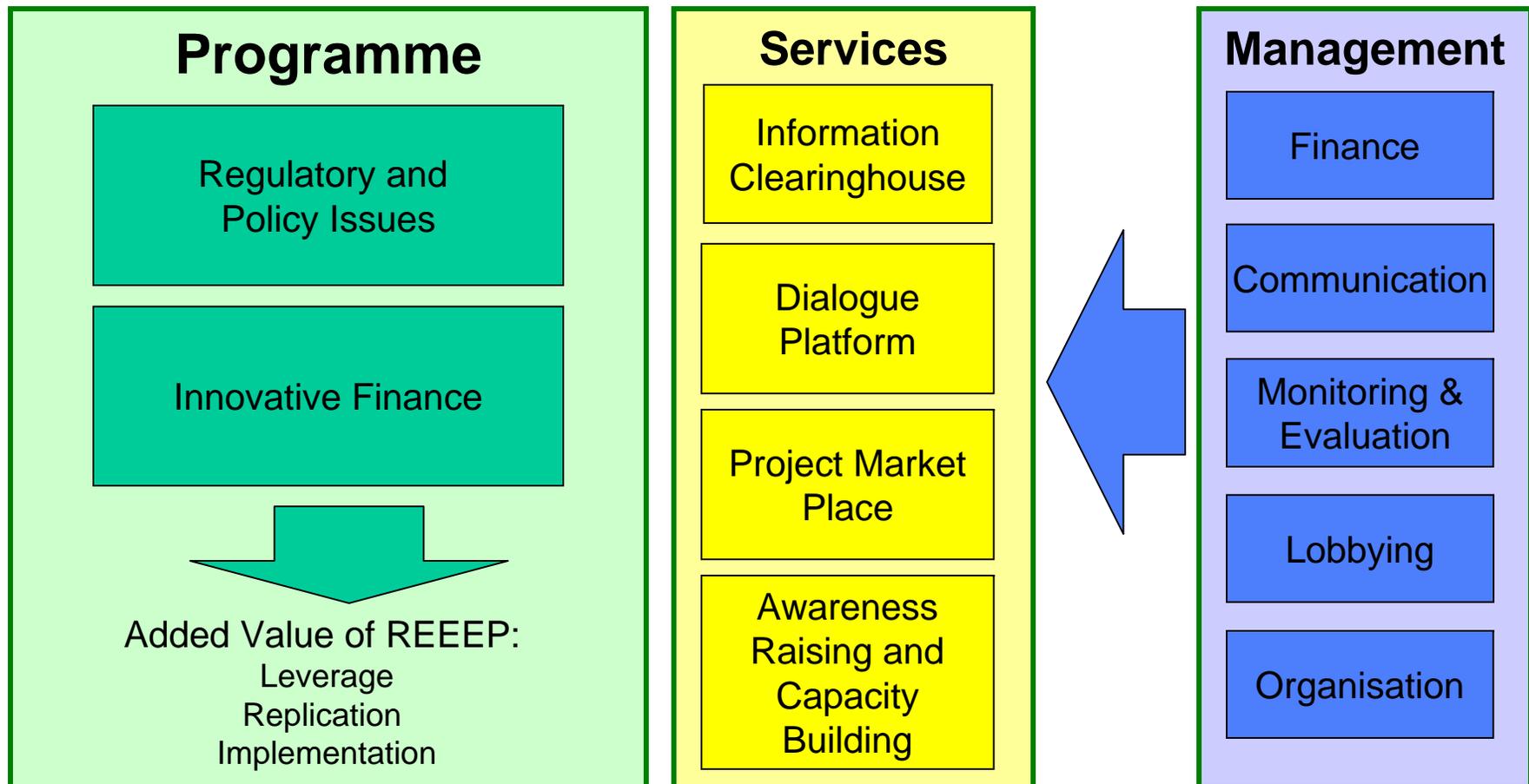
- Buildings
 - building envelopes: 'getting buildings right' from the start, refurbishment
 - building services equipment (cooking, lighting, motors, energy management systems, passive solar use and solar water heaters)
- Appliances
- Behavior and better in-house energy management (indoor climate and HVAC)
- Local transport



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REEEP Activities

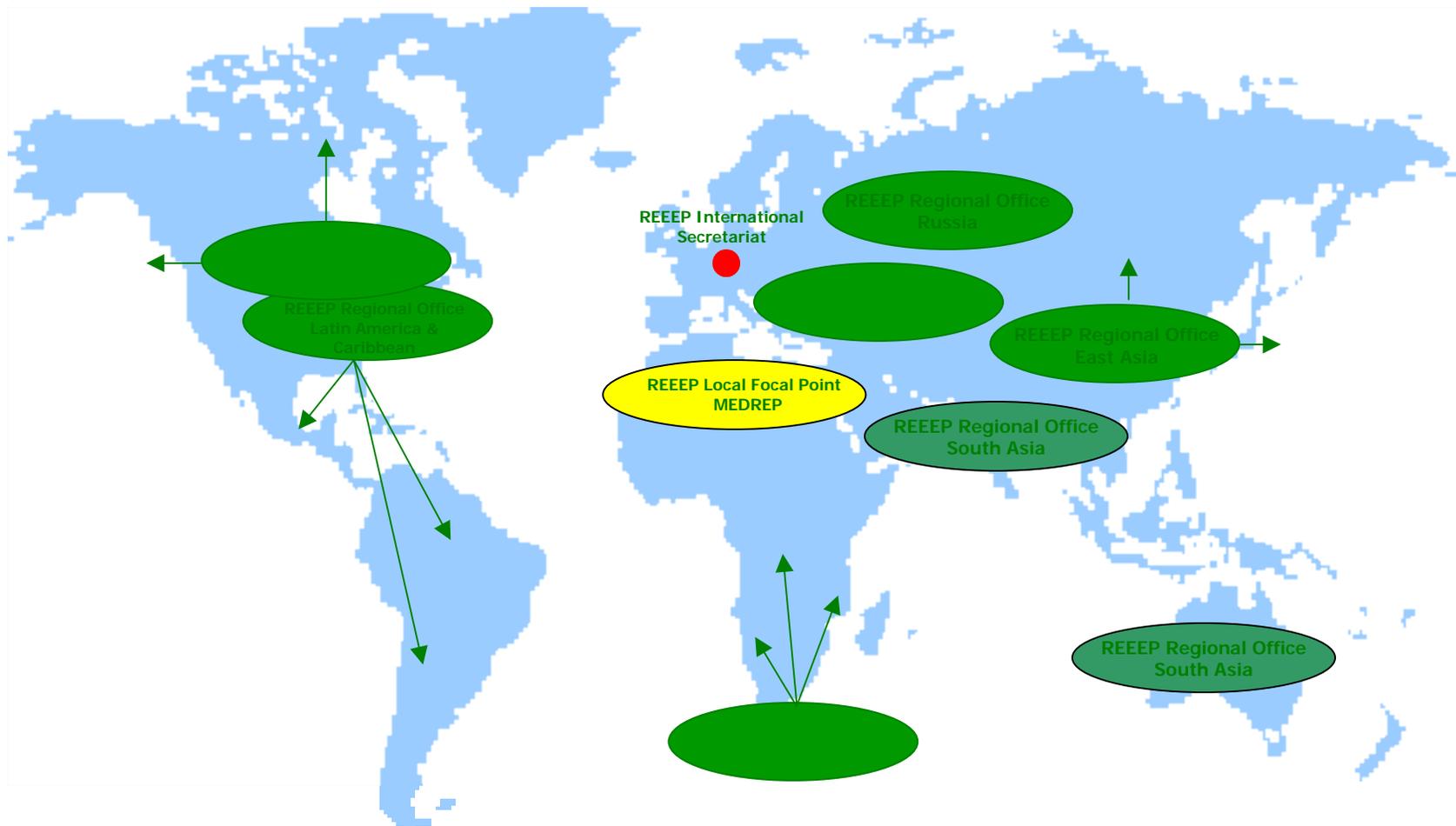




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Delivering Value via Regional Secretariats

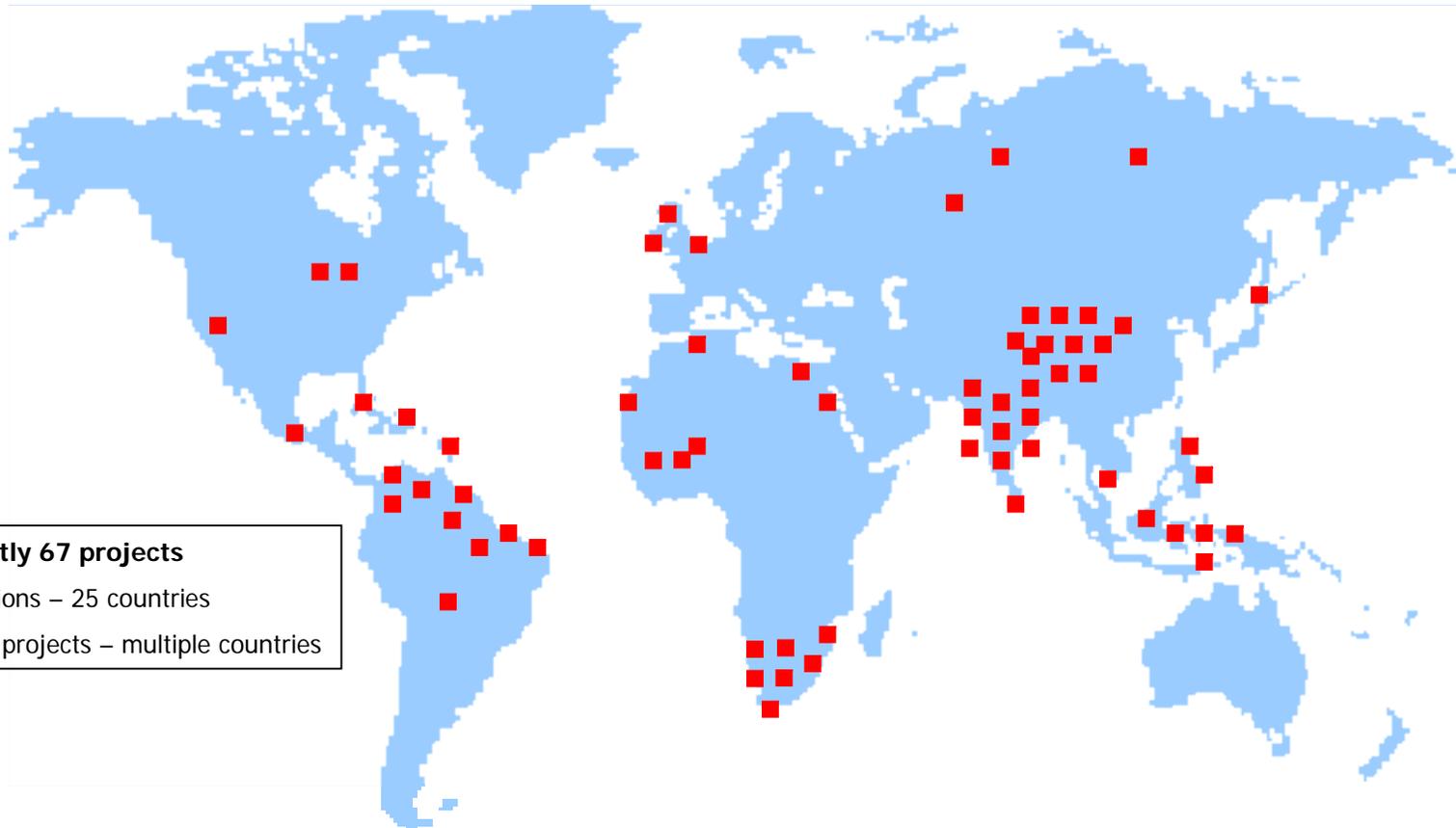




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The majority of current REEEP projects are in Brazil, China, India and South Africa





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Examples of projects in „Local“ Finance

- Municipal street lighting – ESCO in India;
- Accelerating SWH in Brazil and Caribbean;
- Development of business model and community fund for solar water pumps in Brazil;
- Financial Model for municipal water in South Africa;
- Setting up renewable energy “exchange” for the ASEAN region.



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Examples of projects in „Local” Policies

- Capacity building for regulators in Andhra Pradesh;
- Development of policy for municipal energy efficiency in the Ukraine, Armenia and Moldova;
- Supporting regulations for renewables in Mexico;
- Removal of policy barriers in Ghana
- Sustainable Energy Regulations Network (SERN) for Africa and Policy Forum for Latin America.



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Questions for discussion

- Which are the *drivers* for local RES and EE in your region/country? What makes RES and EE important in the given context?
- Which are the three most commonly cited energy or environment-related *problems* facing local authorities in your region?
- What are the most *problematic sectors* for local authorities in your region in terms of climate and energy related issues?
- If a local government wants to act towards reducing its emissions, improving end-use efficiency or increasing the share of RES, what are *hardships* does it usually face?

What kind of *support* do local authorities *need* to address these problems and work towards finding sustainable solutions?



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Municipal networks for sustainable energy solutions: REEEP's approach

Planned umbrella initiative that includes:

- REEEP-supported activities approved under current funding rounds (public announcement: 20 March);
- Facilitation of municipal networking focused around particular topics – such as EE - within the framework of existing initiatives (possibly CCP of ICLEI);
- Support for events and attendance to events.



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