Nuclear Technology for Climate Change Mitigation

IAEA Scientific Forum

Nuclear Technology for Climate

Mitigation, Monitoring, Adaptation

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CO_2
H_2O

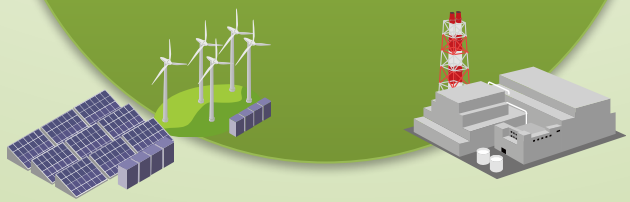
Clean Energy Parks – Maximizing the Value of the Components

Opportunistic clean-tech partners

"Smart" technologies

Clean Energy Park Functions Can Include

- ✓ *Small Modular Reactor*
- ✓ *Variable energy source*
- ✓ *Energy management*
- ✓ *Energy storage*
- ✓ *Hydrogen production*



Possible power & thermal output users

Industry

Waste collection & recycle system

Biomass from waste utilization of sewage

Reuse of waste water, desalination

Rain water utilization

Emission control
Land pollution control

Public transport

Hydrogen technologies

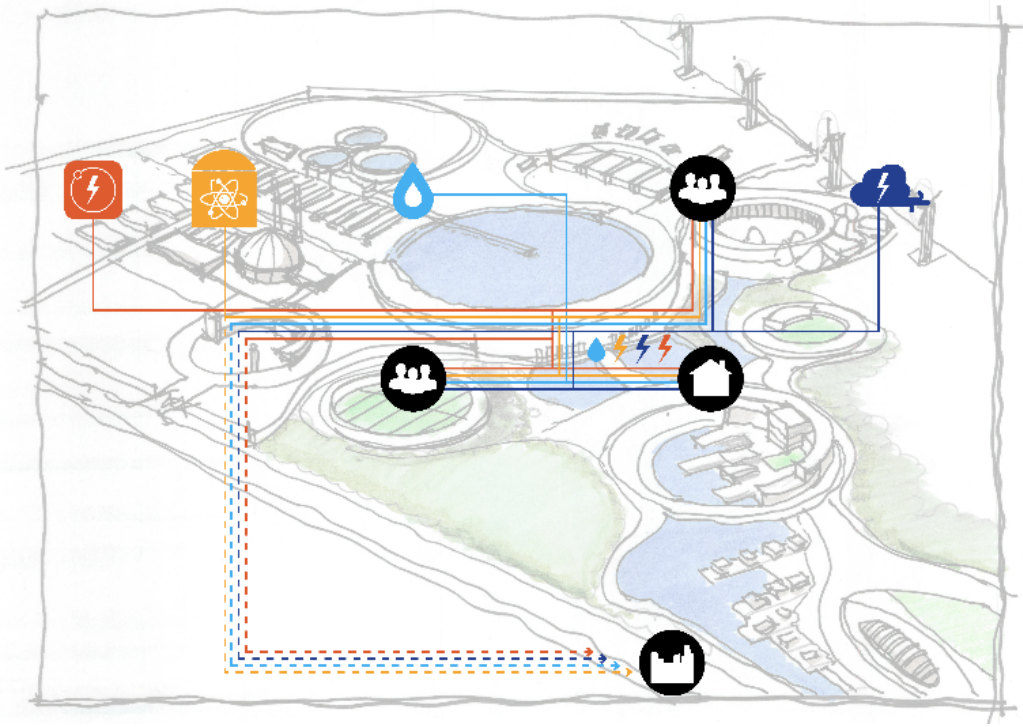
Agriculture

Electric vehicles

Quick charger, small battery

Small Modular Reactors

An enabling element of an integrated clean energy solution



- SMRs can be part of a Clean Energy Park
- SMRs can be "stand-alone"
  - On-grid
  - Off-grid

photos courtesy of Third Way - www.thirdway.org

Small Modular Reactors open the door for new applications of clean nuclear power